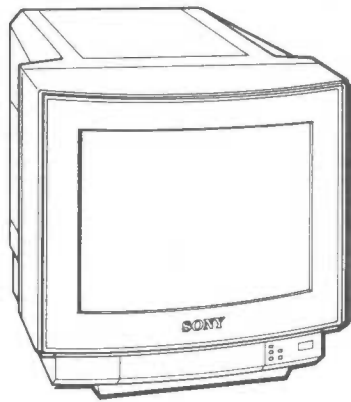


3331

GVM-1300

SERVICE MANUAL

US Model
Canadian Model
Chassis No. SCC-D43A-A



SPECIFICATIONS

Color system	NTSC system	Audio	0.5 W monaural
Picture tube	Trinitron tube Approx. 35.56 cm (13 inches) picture measured diagonally, 90-degree deflection AG Pitch 0.25 mm	Overscan of the picture	Composite video input less than +7% RGB input Horizontal: -7% to +5% variable Vertical: -7% to +5% variable
Resolution	Video inputs: 600 TV lines RGB inputs: 900 dots x 560 lines Maximum viewable pixels: 1024 dots x 768 lines	Inputs	VIDEO IN (LINE A): BNC connector (1) composite video, 1Vp-p ± 3dB, sync negative, automatic termination at 75 ohms Y/C IN (LINE B): 4-pin, mini-DIN (1) Y (luminance signal): 1Vp-p, sync negative, 75-ohm termination switchable C (chrominance signal): 0.286Vp-p (burst signal), 75-ohm termination switchable RGB A: D-sub 9-pin connector (1) Analog RGB: 0.7Vp-p, 75 ohm terminated Digital RGB : TTL level RGB B: D-sub 25-pin connector (1) Analog RGB: 0.7Vp-p, 75 ohm terminated Digital RGB: TTL level
Color temperature	9300 K + 8MPCD		
Frequency response	8 MHz(-6 dB, composite video) 30 MHz(-6 dB, RGB)		
Linearity	Horizontal: less than ±5% Vertical: less than ±5%		
Line full range	Composite video input Horizontal: 15.734 kHz ±500 Hz Vertical: 52 to 60 Hz RGB input Horizontal: 15 to 36 kHz Vertical: 50 to 100 Hz		

— Continued on next page —

TRINITRON® COLOR VIDEO MONITOR

SONY®



AUDIO IN (LINE A/LINE B/RGB A):
phono jack (3)
-5 dBs, high impedance
CONTROL S: minijack (1)
RGB A SELECT: minijack (1)

Outputs VIDEO OUT (LINE A): BNC connector (1)
Y/C OUT (LINE B): 4-pin mini-DIN (1)
AUDIO OUT (LINE A/LINE B): phono
jack (2)

Power requirements
120 V AC, 50/60 Hz

Power consumption
95 W Max.

Operating temperature range
0°C - 35°C (32°F - 95°F)

Dimensions Approx. 379 × 365.1 × 411 mm (w/h/d)
(15 × 14³/₈ × 16¹/₄ inches)

Weight Approx. 17 kg (37 lb 8 oz)

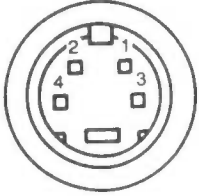
Accessory supplied
AC power cord (1)
D-sub 9 pin adaptor (1)

Optional accessory
Display stand SU-552

Design and specifications subject to change without notice.

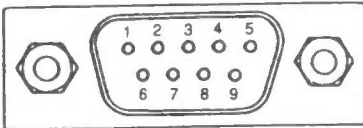
Pin assignment

Y/C (Y/C separate) IN connector (4-pin)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst signal Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	Ground
4	GND for CHROMA-input	Ground

RGB multi connector (9-pin)



Pin No.	Signal				
	Analog	Digital 8-color	Digital 16-color	Digital 64-color	Digital monochrome
1	GND	GND	GND	GND	GND
2	(NC)	(NC)	(NC)	r	(NC)
3	R	R	R	R	(NC)
4	G	G	G	G	(NC)
5	B	B	B	B	(NC)
6	(NC)	(NC)	I	g	I
7	(NC)	(NC)	(NC)	b	G
8	H/HV	H/HV	H/HV	H/HV	H/HV
9	V	V	V	V	V
Sync level	HV:1Vp-p (Positive or Negative) H,V:TTL level (Positive or Negative)	TTL level (Positive or Negative)	TTL level (H:Positive V:Positive)	TTL level (H:Positive V:Negative)	TTL level (H:Positive V:Negative)

GND: Ground R: Red G: Green B: Blue

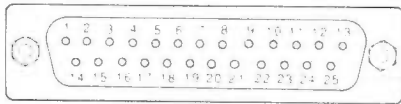
(NC): No connection

H: Horizontal sync V: Vertical sync

HV: Composite sync I: Intensity

r: Secondary red g: Secondary green b: Secondary blue

RGB multi connector (25-pin)

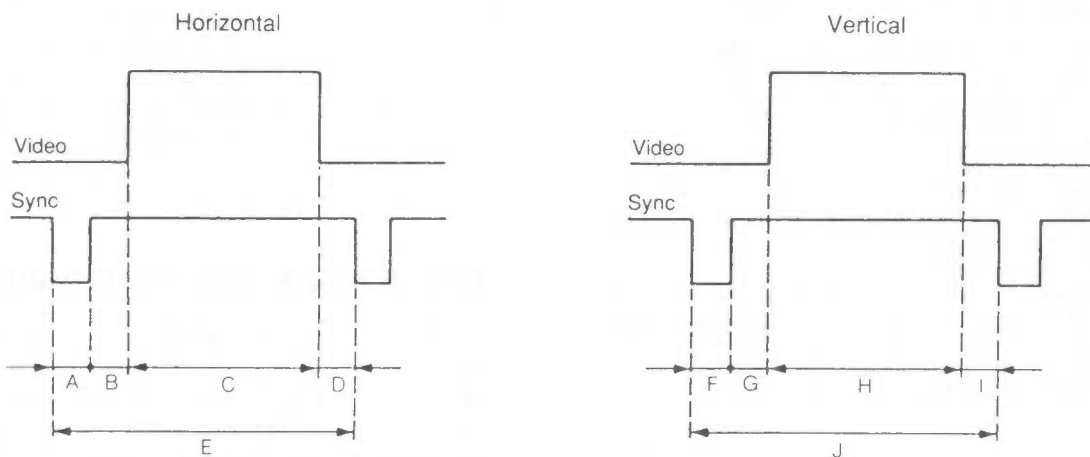


Pin assignment

Pin No.	Signal	Signal level
1	IBM select	H (5 V): IBM mode L: 3 Bit TTL
2	Audio select	H (5 V or open): Audio inputs from #13 L (less than 0.4 V): Audio inputs from the LINE AUDIO IN jacks
3	Video input (composite video signal) H. sync or composite sync	When the high state is selected at #9: 1 Vp-p, 75 ohm terminated (Negative polarity sync), with the SUPERIMPOSE switch set to ON 1-4 Vp-p, 75 ohm terminated (Negative or Positive), with the SUPERIMPOSE switch set to OFF When the low state is selected at #9: TTL level
4	Blue input	Positive polarity When the high state is selected at #9: Analog signal (0.7 Vp-p, 75 ohm terminated, non sync 1 Vp-p, 75 ohm terminated, with sync on G signal) When the low state is selected at #9: Digital signal (TTL level)
5	Green input	
6	Red input	
7	NC	
8	NC	
9	Analog/digital mode select	H (open): Analog signal (0.7 Vp-p) L (ground): Digital signal (TTL level)
10	RGB B/NORMAL mode select (Function switch)	H (3 V to 12 V): Signal input from the 25 pin D-sub L (less than 2 V): Composite video inputs from LINE or Y/C input impedance more than 22 kilo ohms
11	V. sync	TTL level
12	Blanking input	When the high state is selected at #9: H (1 V to 3 V): RGB input from the 25 pin D-sub L (less than 0.4 V): Composite or Y/C video inputs, 75 ohm terminated (Rapid switch) When the low state is selected at #9: H (5 V or open): RGB input from the 25 pin D-sub L (ground): Composite video input from LINE VIDEO IN
13	Audio input	Input level -5 dBs (normal), input impedance more than 47 kilo ohms
14	EXT/INT video select	Functions with the SUPERIMPOSE switch set to ON. H (open): Sync signal input from #3 L (ground): Sync signal input from LINE or Y/ C
15	Video input return	
16	Blue input return	
17	Green input return	
18	Red input return	
19	Ground	
20	Video output (composite sync output)	Output level 1.0 Vp-p, within sync 0.3 Vp-p output impedance 75 ohm

Pin No.	Signal	Signal level
21	Video output return	
22	Audio common return	
23	Audio output	Output level -5 dBs (normal) output impedance less than 10 kilo ohm
24	Blanking input return	
25	IBM luminance signal	Positive polarity When the high state is selected at #1: TTL level When the low state is selected at #1: Low state (GND)

Timing Chart



		VGA compatible		CGA compatible	EGA compatible	
fH		31.47 kHz		15.68 kHz	21.86 kHz	
A (μs)		3.81		4.45	4.9	
B (μs)		1.91		8.03	1.6	
C (μs)		25.42		44.83	39.3	
D (μs)		0.64		6.47	0	
E (μs)		31.78		63.78	45.8	
fV		70 Hz		60 Hz	60 Hz	
F (ms)		0.064	0.064	0.064	0.19	0.6
G (ms)		1.08	1.87	1.017	2.11	0
H (ms)		12.71	11.13	15.26	12.74	16.0
I (ms)		0.416	1.206	0.349	1.64	0.05
J (ms)		14.27	14.27	16.69	16.68	16.7
Sync Polarity	H	-	+	-	+	+
	V	+	-	-	+	-

SAFETY CHECK-OUT (US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

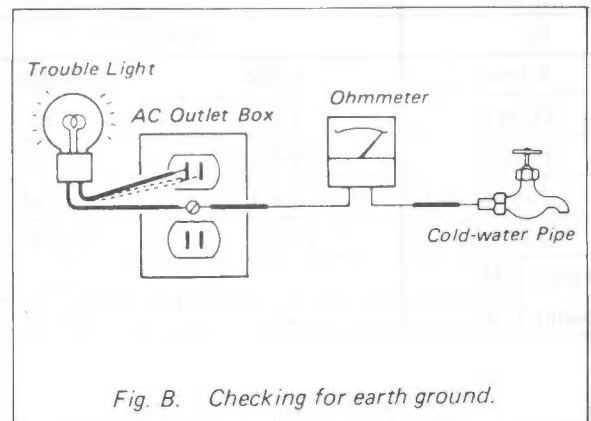
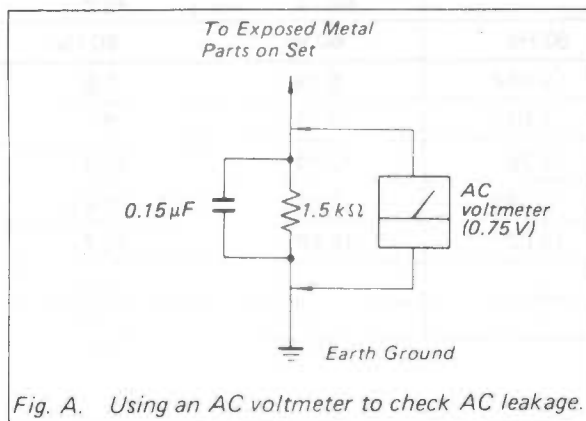



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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

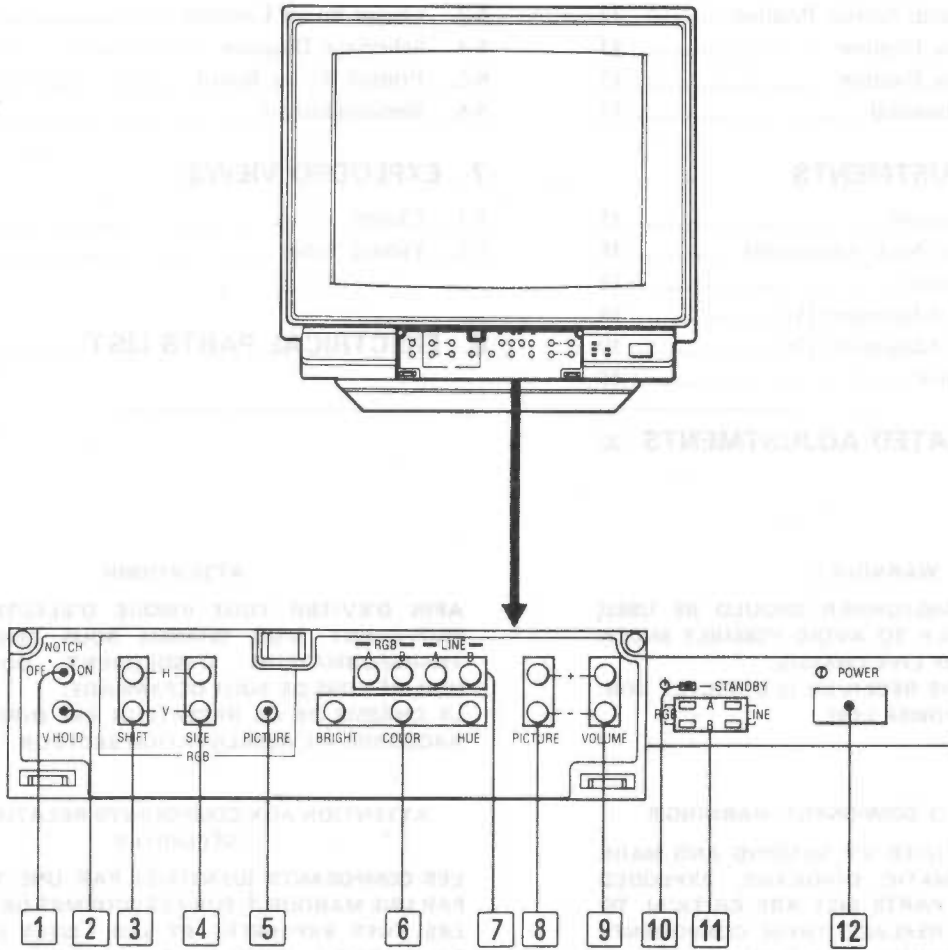
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front panel



1 NOTCH switch

Normally set this switch to the OFF position to obtain fine picture details without color spill or color noise. When a microcomputer, such as APPLE II, is connected and stripes appear, set it to the ON position.

2 V HOLD (vertical hold) control

If the video input picture rolls vertically, use this control to stabilize it.

Note

Control **2** does not function for RGB input pictures.

3 RGB H/V SHIFT (horizontal/vertical shift) controls

Turn the H-SHIFT control to adjust the horizontal position of the RGB input picture, if it is off center. Turn it clockwise to shift the picture toward the right and counterclockwise to shift the picture toward the left. Turn the V-SHIFT control to adjust the vertical position of the RGB input picture, if it is off center. Turn it clockwise to shift the picture upward and counterclockwise to shift the picture downward.

4 RGB H/V SIZE (horizontal/vertical size) controls

Turn the H-SIZE control to adjust the horizontal size. Turn the V-SIZE control to adjust the vertical size.

5 RGB PICTURE control

Adjust this control if the picture level of RGB inputs differs significantly from that of video inputs. Turn this control clockwise to make the contrast and color intensity of the RGB input picture stronger, or counterclockwise to make them weaker.

Note

- Controls **3** to **5** function only for RGB input pictures. However, they do not function when the RGB B input is selected with the SUPERIMPOSE switch on the rear panel set to ON.
- When turning the controls **1** – **4**, use the supplied screwdriver (attached to the panel cover).

6 Picture adjustment controls**BRIGHT (brightness) control**

Normally keep this control at the center detent position. Turn it clockwise to make the picture brighter or counterclockwise to make it darker.

COLOR control

Turn this control clockwise to make the picture more vivid or counterclockwise to make it paler.

HUE control

Use this control to obtain the most natural skin tones. Turn it clockwise to add green to the skin tones or counterclockwise to add purple/red hues.

Notes

- The COLOR and HUE controls do not function when the RGB A input is selected irrespective of the SUPERIMPOSE switch setting.
- The COLOR and HUE controls do not function when the RGB B input is selected with the SUPERIMPOSE switch set to OFF.

7 Input select buttons

Press to select the input source to be monitored.

RGB A: for input signals fed through the RGB A connector and the RGB A AUDIO jack

RGB B: for input signals fed through the RGB B connector

LINE A: for input signals fed through the LINE A connectors

LINE B: for input signals fed through the LINE B connectors

8 PICTURE +/- buttons

Press the + button to make the contrast and color intensity stronger or press the – button to make them weaker.

9 VOLUME +/- buttons

Press the + button for more volume or press the – button for less volume.

10 STANDBY indicator

Lights when the power is turned off by remote control through CONTROL S signal.

While the unit is operating, this indicator functions as the response indicator.

It blinks when the VOLUME or PICTURE buttons are pressed.

It lights steadily at the highest or lowest level of volume or picture level.

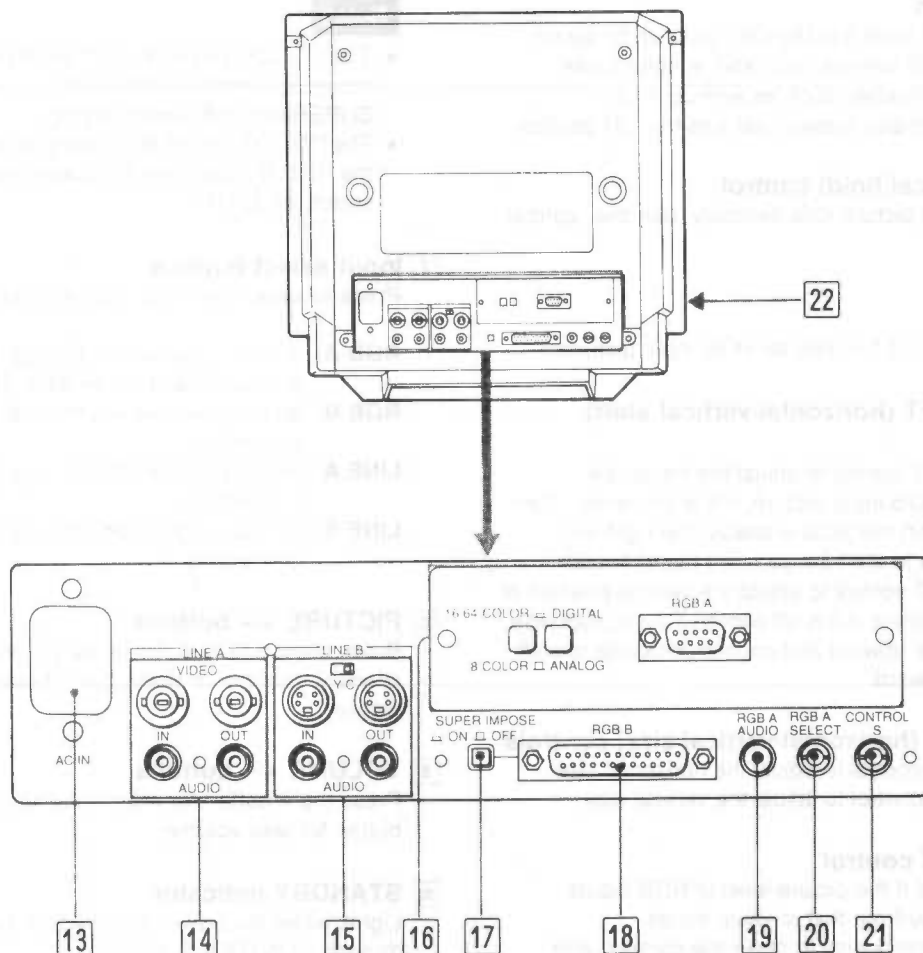
11 Input select indicators (RGB A/RGB B/LINE A/LINE B)

When the input source is selected, the corresponding indicator lights.

12 POWER switch

Depress to turn on the monitor. Press again to turn it off.

Rear

**13 AC IN connector**

Connect the supplied power cord.

14 LINE A

To monitor the input signal fed through this line input, press the LINE A input select button on the front panel.

VIDEO IN connector(BNC type)

AUDIO IN jack(monaural)(phono type)

Connect to the video and audio outputs of video equipment such as VCRs or video disc players.

For a loop-through connection, connect to the video and audio outputs of another monitor.

VIDEO OUT connector(BNC type)

AUDIO OUT jack(monaural)(phono type)

For a loop-through connection, connect to the video and audio inputs of another monitor.

When a connecting cord is connected to the VIDEO OUT connector, the 75-ohm termination of the input is automatically released and the signal input to the VIDEO IN connector is output from this connector.

15 LINE B

To monitor the input signal fed through this line input, press the LINE B input select button.

Y/C 75 Ω termination switch

When only the Y/C IN connector is connected (i.e. nothing is connected to the Y/C OUT connector), set this switch to ON.

When both Y/C IN and OUT connectors are connected together for a loop-through connection, set this switch to OFF.

Y/C IN connector(4-pin mini-DIN)

Connect to the Y/C output of video equipment.

AUDIO IN jack(monaural)(phono type)

Y/C OUT connector(4-pin mini-DIN)

For a loop-through connection, connect to the Y/C input of another monitor.

AUDIO OUT jack(monaural)(phono type)

16 RGB A interface unit**16, 64 COLOR/8 COLOR selector**

Depress this selector when digital RGB equipment having 16- or 64-color mode is connected to the RGB A connector. The 16- or 64-color mode is automatically selected by sync polarity. Keep the selector released for digital RGB equipment having the 8-color mode.

DIGITAL/ANALOG selector

Depress this selector when video equipment having digital RGB output is connected to the RGB A connector. Release the selector for equipment having analog RGB output.

RGB A connector (D-sub 9-pin)

Connect to video equipment having either digital or analog RGB output.

To monitor the input signal fed through this connector, press the RGB A input select button.

Note

For connection with a microcomputer, be sure to use either of the following optional connecting cables:

SMF-521 (9-pin to 15-pin)

SMF-520 (9-pin to 9-pin)

17 SUPERIMPOSE switch

Set this switch to ON (⏏) to display the composite video signal from an 8 mm video cassette recorder, etc., or to perform superimposition. In this case, the RGB H/V SHIFT, RGB H/V SIZE and RGB PICTURE controls do not function.

Set this switch to OFF (⏏) to display the RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 3 (H. sync) or pin 11 (V. sync) of the RGB B connector.

Note

When the RGB B/NORMAL mode select signal is supplied to pin 10 of the RGB B connector with the SUPERIMPOSE switch set to ON, the previously selected LINE A or LINE B indicator lights together with the RGB B indicator.

18 RGB B connector (D-sub 25-pin)

Connect to video equipment having either digital or analog RGB output.

To monitor the input signal fed through this connector, press the RGB B input select button.

Note

For connection with a microcomputer, be sure to use either of the following optional connecting cables:

SMF-524 (25-pin to 15-pin)

SMF-525 (25-pin to 9-pin)

19 RGB A AUDIO input jack (phono type)

Connect to the audio outputs of the RGB equipment connected to the RGB A connector.

20 RGB A SELECT connector (minijack)

When ground potential is applied to this connector, signal input from the RGB A connector will be monitored regardless of the setting of the input select buttons on the front panel. If a power supply of 5 V is applied to the connector or the circuit is open, the input signal selected with the input select buttons will be monitored.

This connector allows the input source monitored to be selected with external equipment.

21 CONTROL S input connector (minijack)

Connect to the CONTROL S output of video equipment. The power on/off, input select, volume and picture settings can be remotely controlled through the equipment connected.

Note

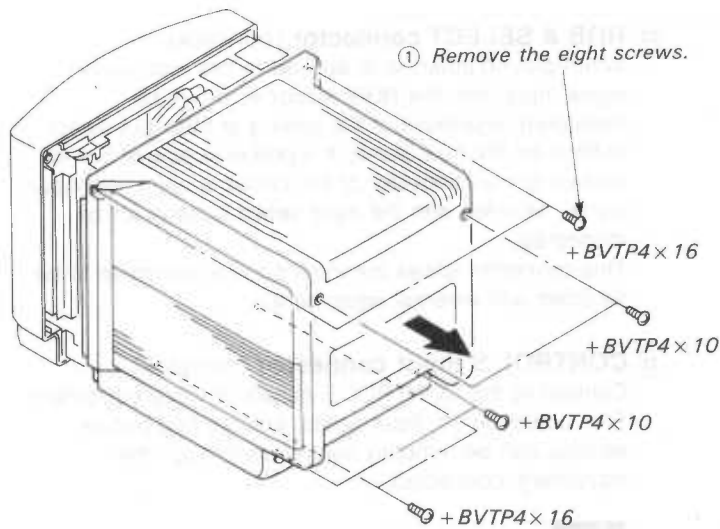
Mutual interference of deflection may occur when several monitors are ranged side by side for a loop-through connection, as this unit is compatible with the signals of high horizontal frequencies. In such a situation, allow adequate space between each unit.

22 Earphone jacks

- Phone 1 : When the earphone is connected, the sound through the speaker is also audible.
- Phone 2 (Switched) : When the earphone is connected, the sound through the speaker is not audible.

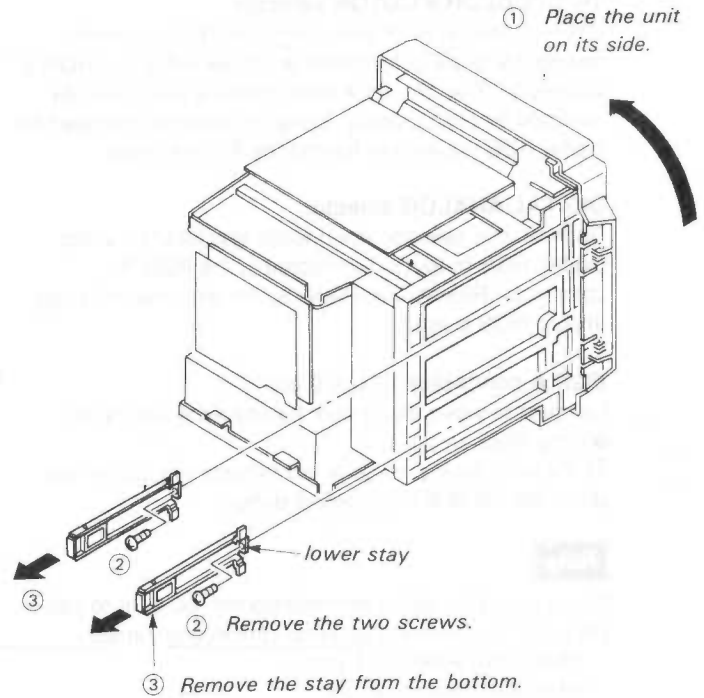
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL



② Remove the rear cover in the direction of the arrow.

2-2. A AND B BORDS SERVICE POSITION

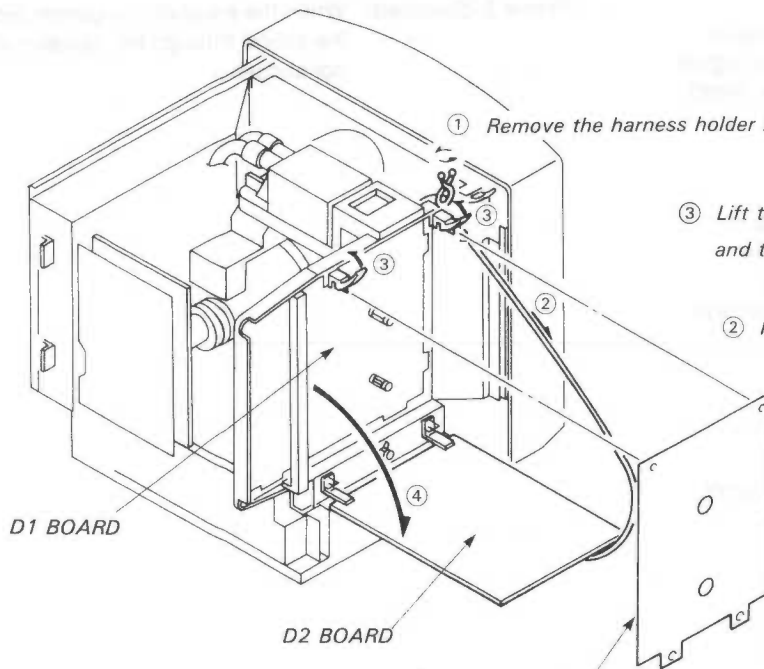


① Place the unit on its side.

② Remove the two screws.

③ Remove the stay from the bottom.

2-3. D1 AND D2 BOARDS SERVICE POSITION



① Remove the harness holder in the direction of the arrow.

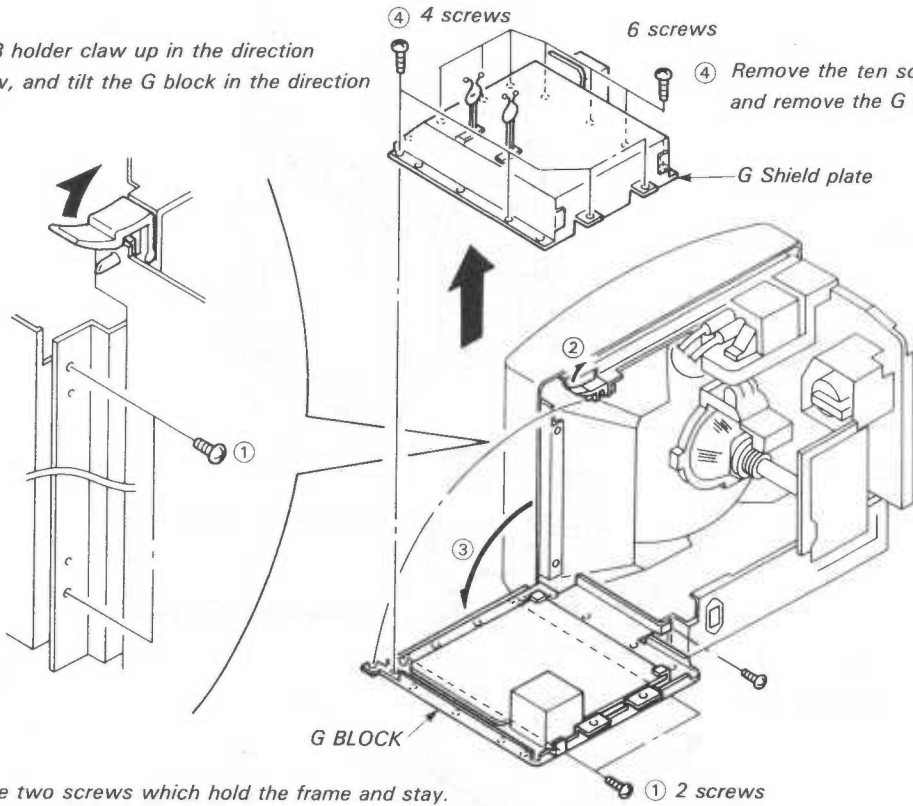
③ Lift the PCB holder claw up in the direction of the arrow, and tilt the D2 board in the direction of arrow 4.

② Pull out the lead wire in the direction of the arrow.

⑤ Remove the shield plate from the PCB holder, then service the D1 board.

2-4. G BOARD SERVICE POSITION

② Lift the PCB holder claw up in the direction of the arrow, and tilt the G block in the direction of arrow 3.



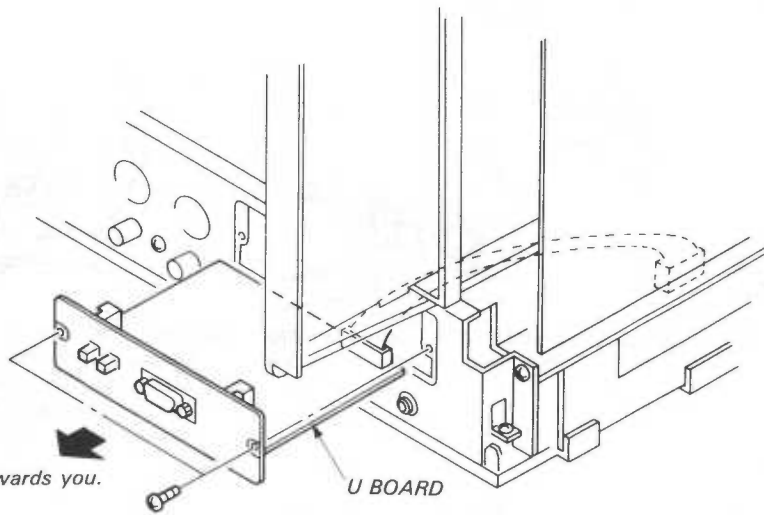
① Remove the two screws which hold the frame and stay.

① 2 screws

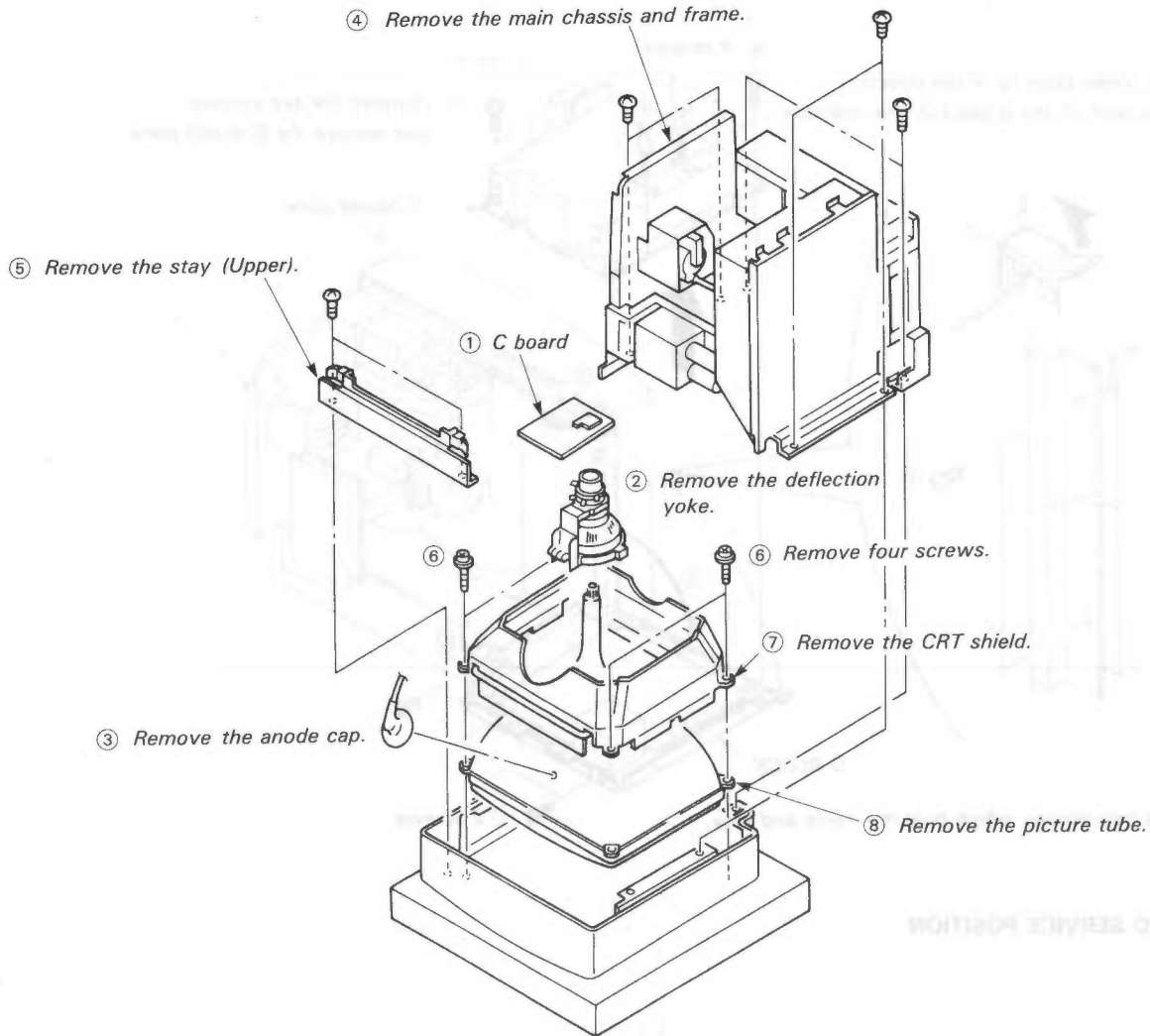
2-5. U BOARD SERVICE POSITION

② Pull out towards you.

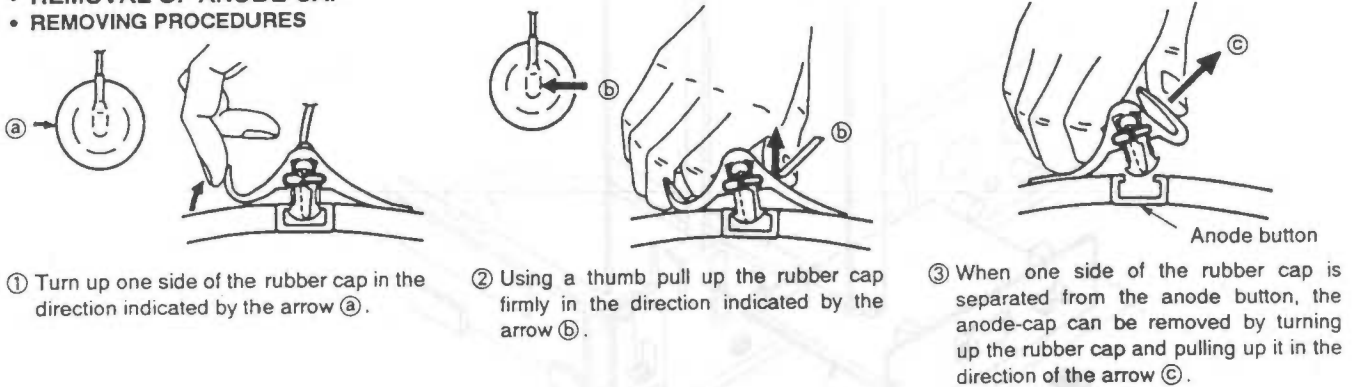
① Remove the two screws.



2-6. PICTURE TUBE REMOVAL

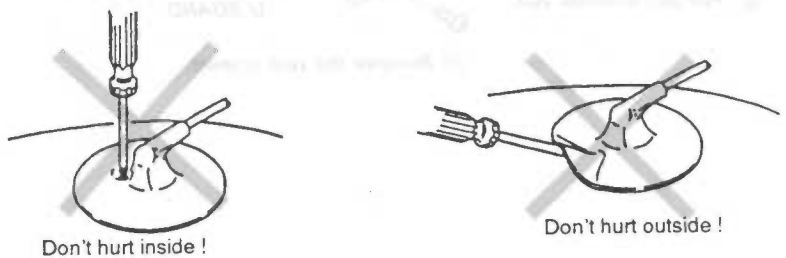


• REMOVAL OF ANODE-CAP
• REMOVING PROCEDURES



• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

3-1. LANDING ADJUSTMENT

Preparations:

1. Face the set CRT surface toward the east or west in order to lessen the effect of geomagnetism.
2. Turn the set power switch on and degauss.

Adjustment:

1. Input a white signal.
2. Perform rough adjustment of white balance, screen (G2), horizontal convergence and focus. The purity adjustment knob should be at the center position at this time. (Fig. 1)
3. Set C board R BKG VR (RV705) to maximum and G BKG VR (RV706) and B BKG VR (RV707) to minimum.
4. Move the deflection yoke back and adjust the purity magnet so that the entire picture is as shown in Fig. 2.
5. Adjust so that the entire picture becomes red while moving the deflection yoke forward.
6. Use the G BKG VR (RV706) and B BKG VR (RV707) to check and adjust each color following steps 3 - 5.
7. When landing at the corners is not correct, perform magent correction (Fig. 3).
8. When the position of the deflection yoke is finalized, secure with the bracket.

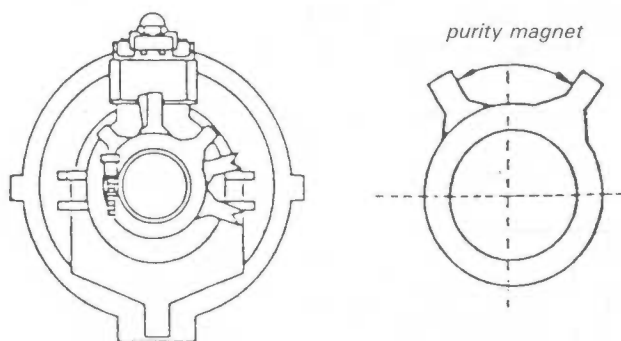


Fig. 1

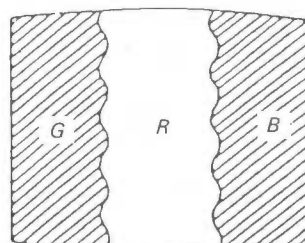


Fig. 2

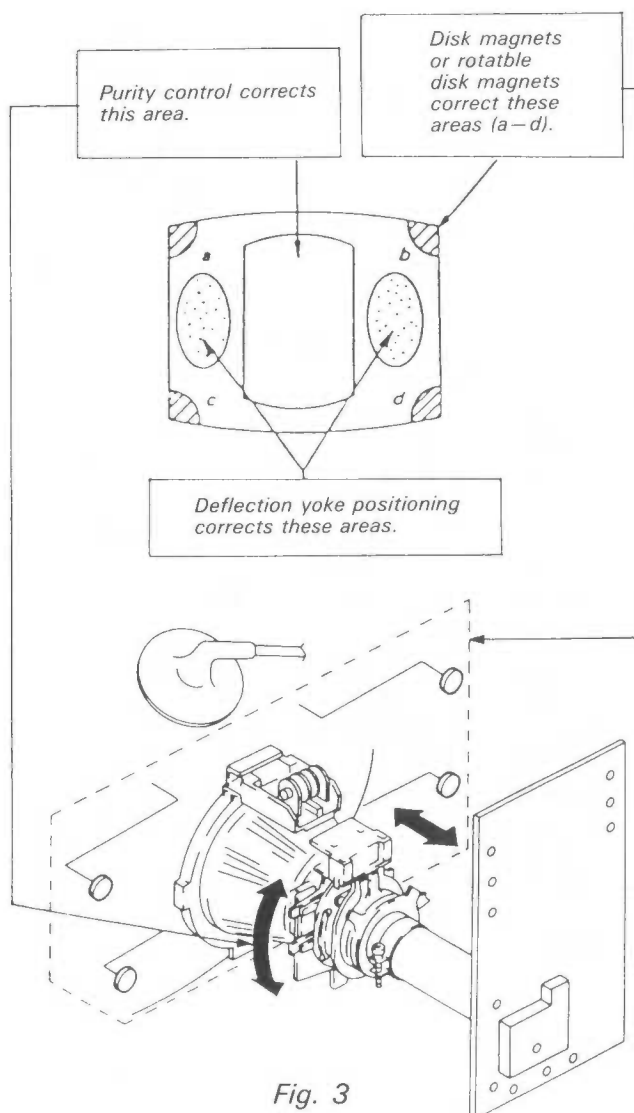
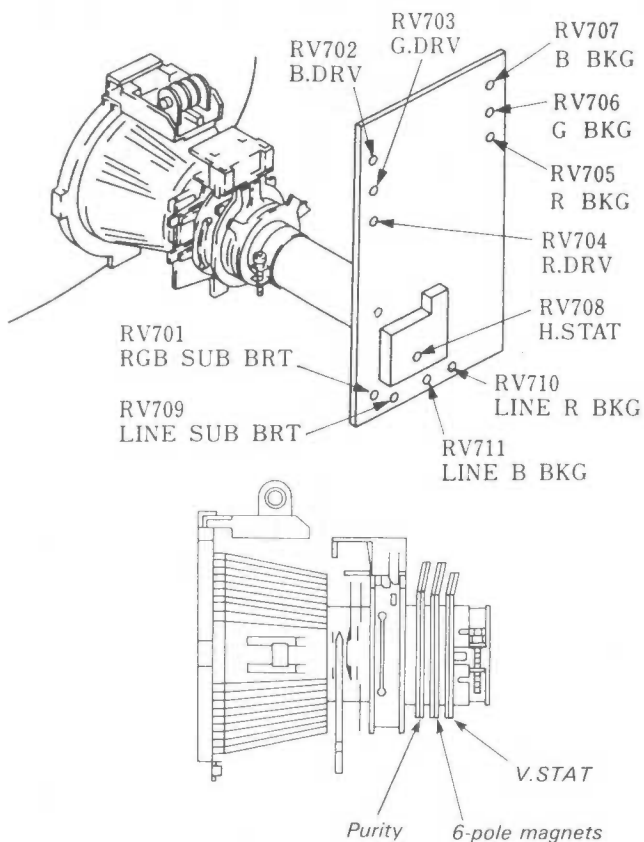


Fig. 3

3-2. DEFLECTION YOKE NECK ADJUSTMENT

Perform this adjustment when there is misconvergence and pincushion distortion at the top and bottom of the picture.

1. Tilt the deflection yoke up and down to adjust when the pincushion distortion is not the same at the top and bottom of the picture. (Fig. 4)

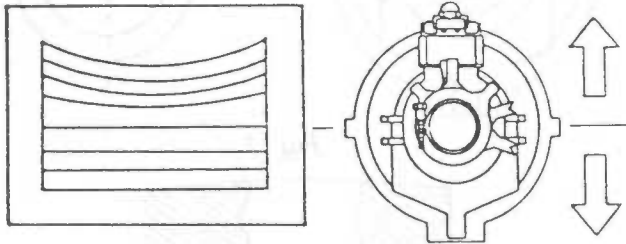


Fig. 4

2. When there is misconvergence at the top and bottom of the picture as shown in Fig. 5, tilt the deflection yoke to the left and right to adjust.

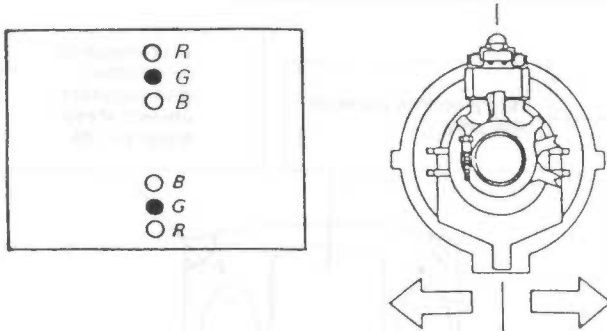
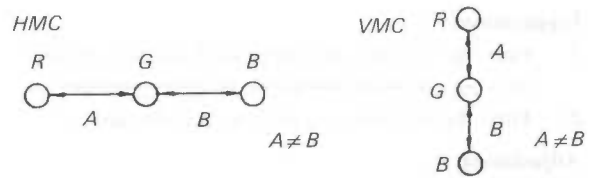


Fig. 5



Dot Movement due to 6-pole Magnet movement

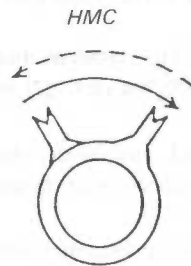


Fig. 6

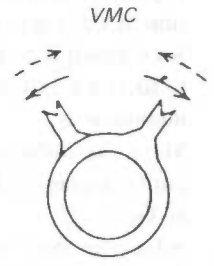
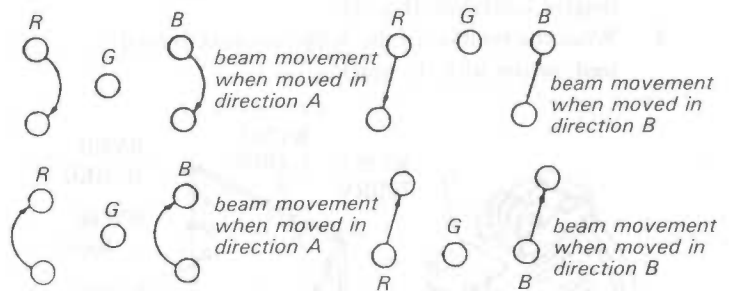
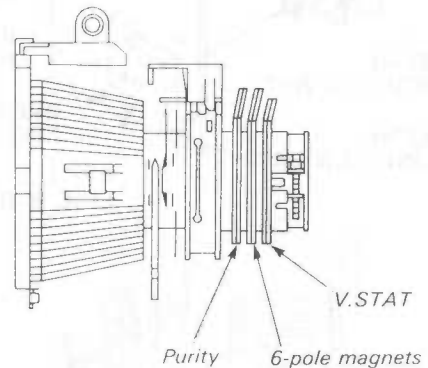


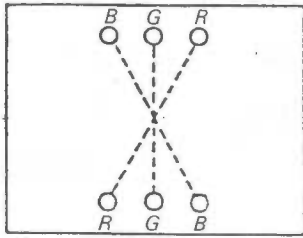
Fig. 7



- 1) Convergence Adjustment for Picture Center (H. STAT, V. STAT)
 1. Input a dot signal, and with BRT at minimum, adjust for optimum picture with PICTURE.
 2. Line up picture center and horizontal direction RGB dots with H. STAT VR (RV703).
 3. Line up picture center and vertical direction RGB dots with V. STAT magnet.
- 2) Picture center horizontal direction asymmetrical misconvergence (HMC)
Picture center vertical direction asymmetrical misconvergence (VMC)
4. For HMC, move the six-pole magnet to adjust so that the R and B dots are symmetrical to the right and left of the G dot.
5. For VMC, move the six-pole magnet to adjust so that the R and B dots are symmetrical above and below the G dot.



- 3) Picture Periphery Convergence Adjustment
 1. For Y crosstalk, adjust with the Y crosstalk correction magnet.



neck Assy

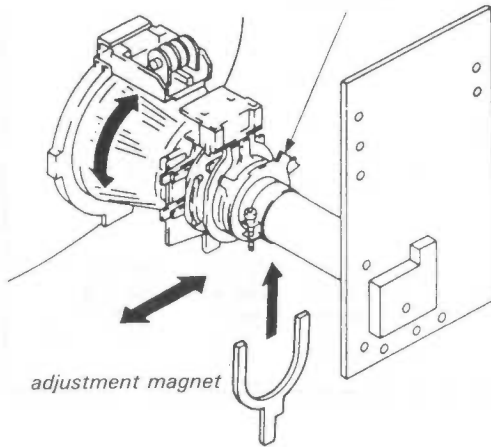
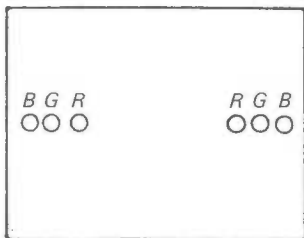


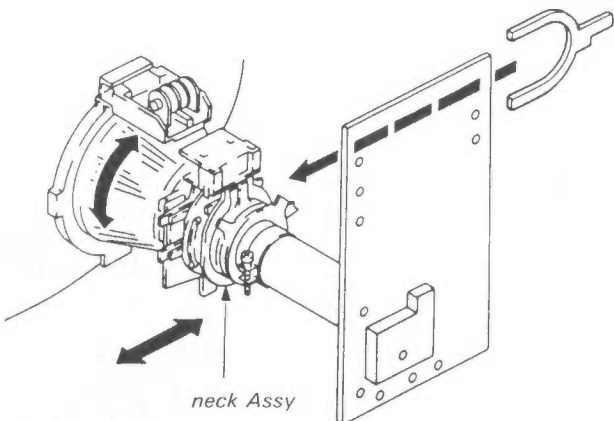
Fig. 8

2. Adjust with the X crosstalk adjustment magnet when there is H TILT.



When red dots are off to the inside at the right and left.

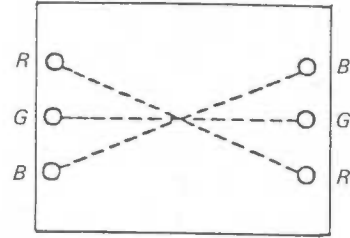
adjustment magnet



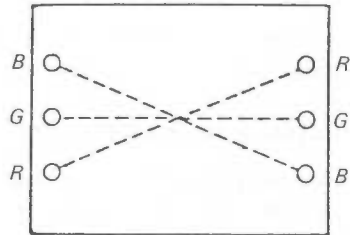
neck Assy

Fig. 9

3. Adjust with the deflection yoke reactor correction coil when there is X crosstalk. (Fig. 10)

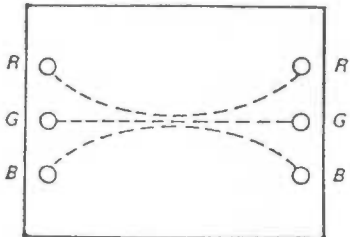


In this case adjust with coil A in Fig. 11.



In this case adjust with coil B in Fig. 11.

4. Adjust with the deflection yoke reactor correction coil when there is X bow.



In this case adjust with coil C in Fig. 11. At this time put D core in so that the marked side is on side A. (Fig. 11)
 Note: Paint D core after adjustment.

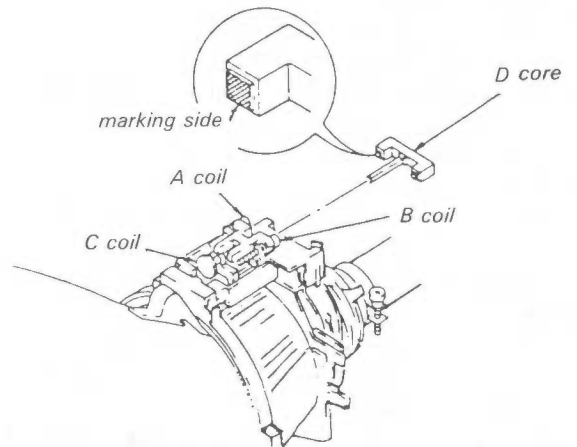


Fig. 11

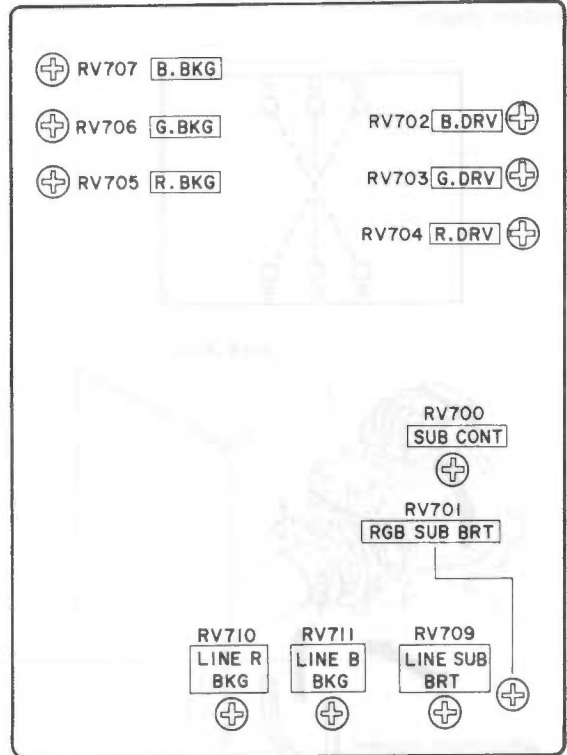
3-3. SCREEN ADJUSTMENT

- (1) Input no signal at RGB mode.
- (2) Set the C board VRs as shown below.
 RV705 ~ 707 R. G. B. BKG: MIN.
 RV710, 711 LINE R. B BKG: MIN.
 RV702 ~ 704 R. G. B DRV: MAX.
 RV701 RGB SUB BRT: MAX.
 RV709 LINE SUB BRT: CENT.
 RV700 SUB CONT: CENT.
- (3) Lower the raster gradually by turning RV502 (SCREEN), and check which color remains at last.
- (4) Apply 140 V from the DC power supply to the cathode corresponding to the color remaining in step 3.
- (5) Adjust RV502 (SCREEN) to the point immediately before the raster is cut off.

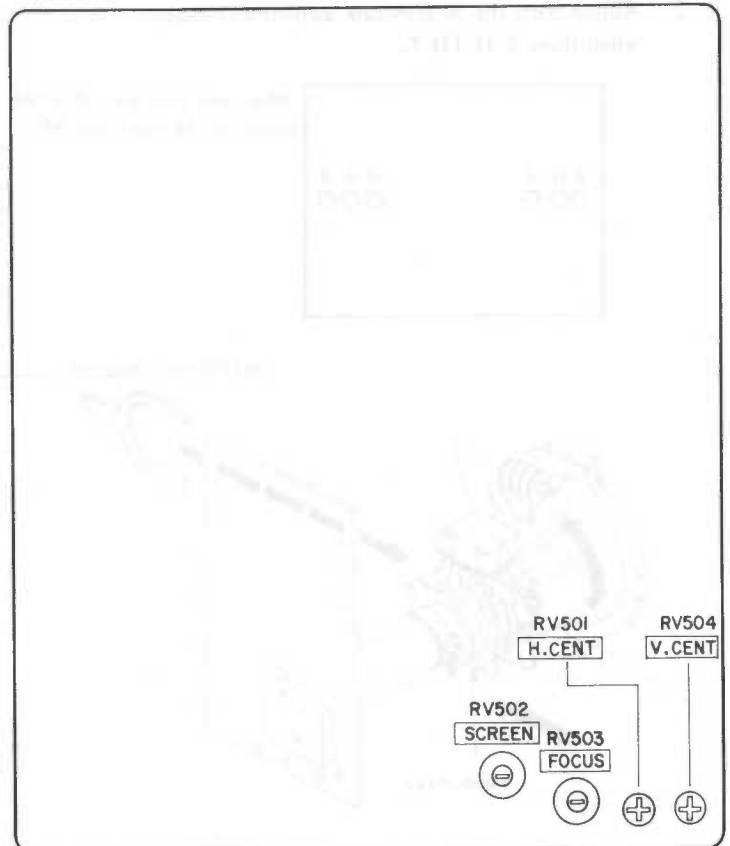
3-4. WHITE BALANCE ADJUSTMENT (1)

- (1) Input an all white signal at RGB mode, and adjust screen size with user control volume so that the all of effective screen is bright.
- (2) Demagnetize the CRT with a degausser.
- (3) Set trimmers as follows:
 - (i) RV705 (R. BKG) — Min.
 RV706 (G. BKG) —
 RV707 (B. BKG) —
 - (ii) RV704 (R. DRV) — Max.
 RV703 (G. DRV) —
 RV702 (B. DRV) —
 - (iii) RV701 (RGB SUB.BRT) CENT.
 - (iv) RV709 (LINE SUB.BRT)..... CENT.
 - (v) BRT VR CENT
 - (vi) PIC Max.
 - (vii) RGB PIC Max.
- (4) Attach the analyzer sensor to the center of the CRT.
- (5) Set video signal level to 10 IRE.
 0.10 ± 0.002 Vp-p (terminated at $75 \pm 1\%$).
- (6) Adjust cutoff W/B with the BKG VRs (RV705, 706, 707).
 Cutoff: 3 Nit (3 ~ 4)
- (7) Set video signal level to 100 IRE.
 0.70 ± 0.002 Vp-p (terminated at $75 \pm 1\%$).
- (8) Adjust highlight White Balance with the DRV VRs (RV702, 703, 704).
 * If a color is too bright, lower its setting.
- (9) Tracking
 Repeat steps 5 to 8 so that cutoff and highlight White Balance fall within the specification.
 Specification: $9300^\circ\text{K} + 8$ MPCD, within 2 JND
- (10) Set video signal level to 10 IRE.
 0.07 ± 0.002 Vp-p (terminated at $75 \pm 1\%$)
 Adjust RGB SUB BRT with RV701 so that a slight brightness is obtained.
- (11) Set video signal level to 0 IRE and confirm that a total cutoff is obtained.

C BOARD



DI BOARD

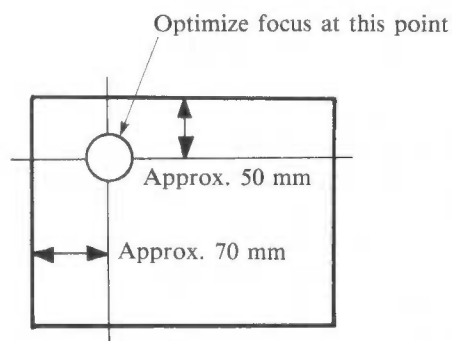


3-5. WHITE BALANCE ADJUSTMENT (2)

- (1) Input a white signal to LINE A.
- (2) Change the white signal level and set CRT luminance to 8 NIT.
- (3) Adjust white balance with RV711 **B CUT-OFF** and RV710 **R CUTOFF**.
- (4) Set white signal level to 10 IRE, and adjust RV709 **SUB BRT2** so that a slight brightness is obtained. Also confirm that a total cutoff is obtained at 0 IRE.
- (5) Set white signal level to 100 IRE and confirm that highlight white balance is within the specification.
- (6) Input a 100-IRE window signal
(H: 18 μ s, V: 5 ms).
- (7) Adjust RV700 so that luminance of the window becomes 180 \pm 20 NIT.

3-6. FOCUS ADJUSTMENT

- 1) In the RGB A mode, display characters on the whole screen at fh 31.47 kHz, 60 Hz.
- 2) Adjust RV503 (FOCUS) so that focus is optimum at the point shown below, with the following settings: BRT center, PIC max., RGB PIC max.



- 3) Change to a white signal.
- 4) Confirm that there are no magenta rings.

SAFETY RELATED ADJUSTMENTS

R1678, +B (Vcc) MAX Check

Always perform the checks below after replacing the following parts (marked \blacksquare on the circuit diagram).

- \blacksquare D2 board: IC1501, IC1503, IC1505, Q1502
R1503, R1504, R1507, R1508
R1509, R1510, R1511, R1516
R1519, R1521, R1522, R1534
R1540, R1541, R1546, R1565
R1642, R1653, R1673, R1678
- \blacksquare D1 board: R592, R595
- \blacksquare G board: Q907, R916, R919

1. Input 130^{+2}_0 V AC (distortion 3% or less).
2. In the RGB mode, receive a fh 15.734-kHz dot-hatch signal.
3. * Contrast minimum
* Bright minimum
4. Connect a digital multimeter to TP1502.
5. Confirm that voltage at TP1502 (Vcc) is 58.5 V or less when RV1501 on the D2 board is set to MAX.
6. Switch to a fh 21.86-kHz dot-hatch signal and confirm that voltage at TP1502 is 80.0 V or less when RV1501 is set to MAX at the settings indicated in 3. above.
7. Switch to a fh 31.5-kHz dot-hatch signal and confirm that voltage at TP1502 is 115 V or less when RV1501 is set to MAX at the settings indicated in 3. above.
8. In the LINE A mode, receive a dot-hatch signal and confirm that voltage at TP1502 is 62.5 V or less when RV1501 is set to MAX at the settings indicated in 3. above.
9. Switch to a fh 21.86-kHz color-bar signal and set PIC to MAX, BRIGHT to the center, and RGB PIC to MAX.
10. Adjust RV1501 so that voltage at TP1502 becomes $77.0^{+0.8}_0$ V.
11. In case the above specification cannot be satisfied, change the R1678 resistor rating.

R1548 Hold-down Circuit Check

Always perform the checks below after replacing the following parts (marked \blacksquare on the circuit diagram).

- \blacksquare D2 board: IC1502, IC1504, D1510,
R1616
R1622, R1625, R1626, R1631,
R1548, R1552, R1553, R1554
R1564

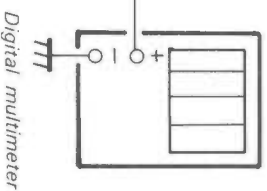
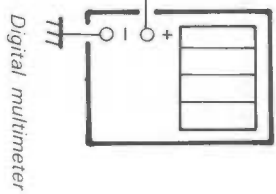
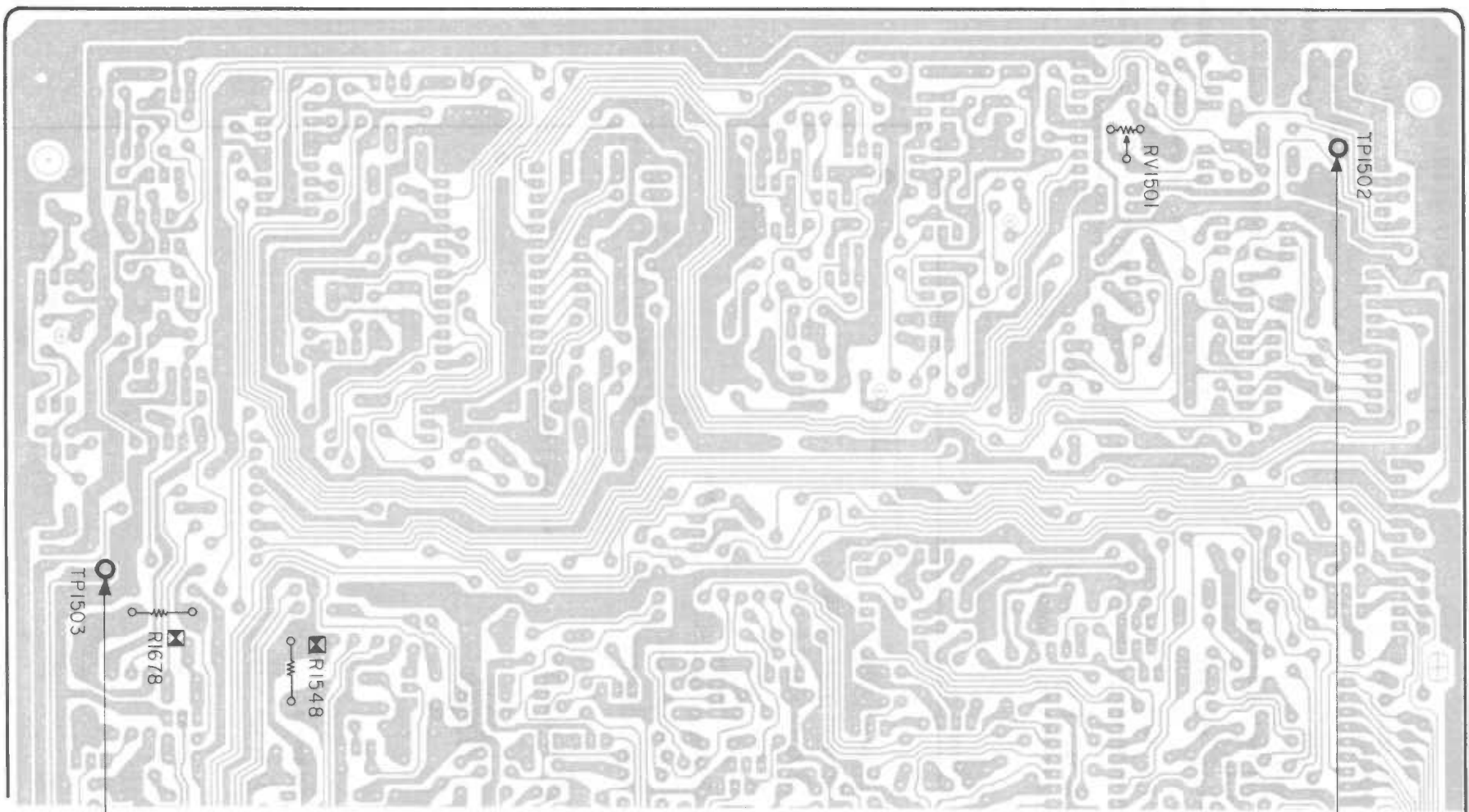
1. Receive a white signal
2. * Contrast maximum
* Bright maximum
3. Connect a digital multimeter to TP1503.
4. Confirm that the digital multimeter voltage reading is 6.5 ± 1.5 V DC.
5. Confirm that there is a shorting plug inserted into the D-16 connector, then connect an ammeter.
6. Set the VIDEO mode (high level at Pin ⑨ of the D-21 connector) and receive the dot-hatch signal.
7. Adjust the bright and contrast controls to minimum and set the ammeter reading to $IABL = 100 \pm 30$ [μ A].
8. Externally apply a voltage to TP1503 and confirm that the hold-down circuit operates at 8.70 ± 0.05 V and the screen is erased.
9. In the same way, externally apply a voltage to TP1503 and confirm that the hold-down circuit does not operate at 8.20 ± 0.05 Vdc.
10. Receive a white signal.
11. Adjust the bright and contrast controls to maximum and set the ammeter reading to $IABL = 80 \pm 40$ [μ A].
12. Externally apply a voltage to TP1503 and confirm that the hold-down circuit operates at $7.95^{+0}_{-0.05}$ V and the screen is erased.
13. In the same way, externally apply a voltage to TP1503 and confirm that the hold-down circuit does not operate at $7.55^{+0}_{-0.05}$ Vdc.
14. In case the above specifications cannot be satisfied, change the R1548 resistor rating.

HVR Check After Replacement

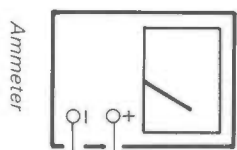
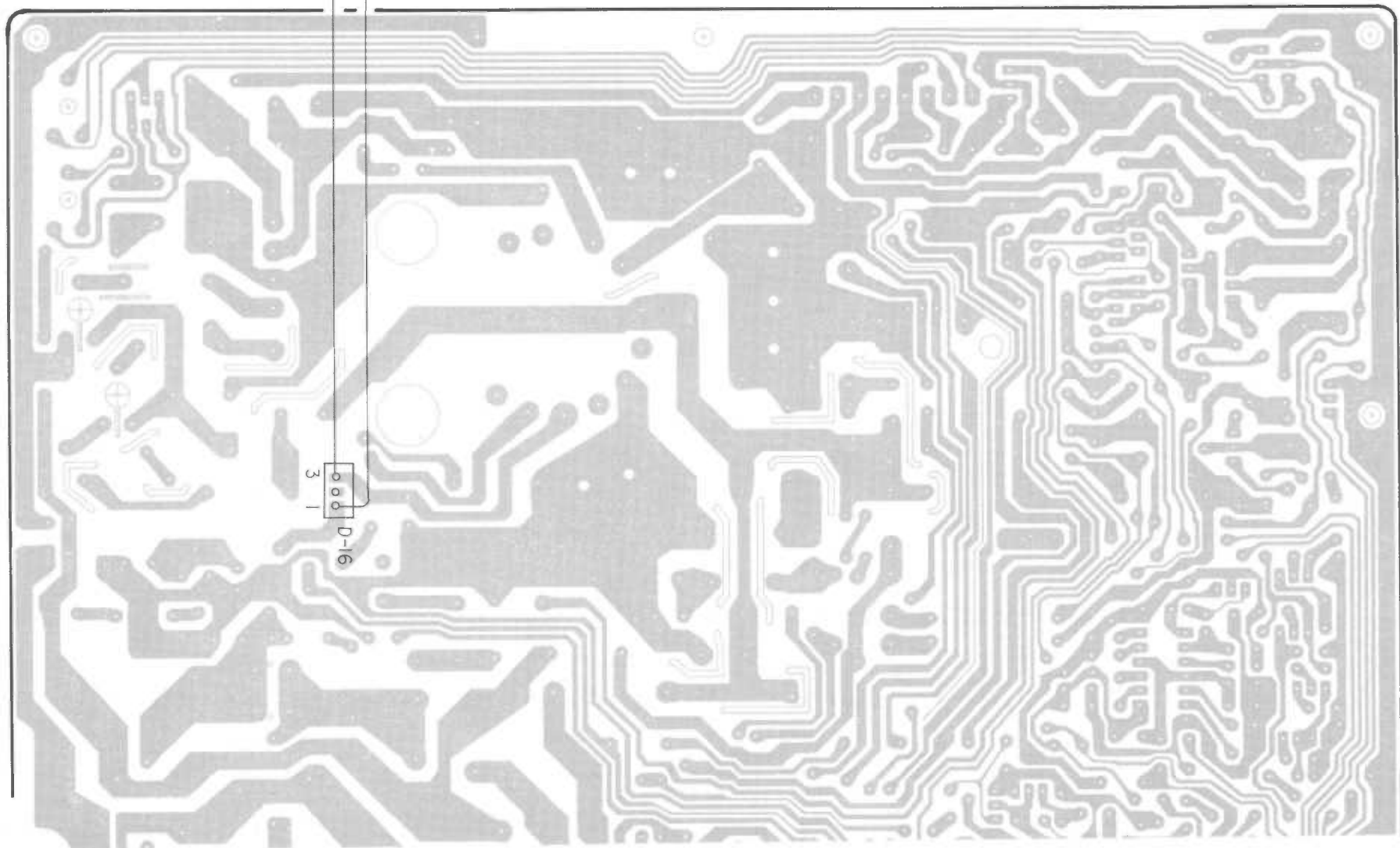
After replacing the HVR, be sure to confirm that the voltage below is being output.

1. Receive a white signal.
2. * Contrast...maximum
* Bright...maximum
3. Connect a digital multimeter to TP1503.
4. Confirm that the digital multimeter voltage reading is 6.5 ± 1.5 V DC.

D2 BOARD



D1 BOARD



MEMO

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. D1, D2 BOARDS ADJUSTMENT

Vc Voltage Adjustment

* High level at Pin ⑨ of the D-21 connector

- 1) Input signal fh: 15.735 kHz
fv: 60 Hz

Measurement point: TP1501 (Vc)

Specification: 3.50 ± 0.05 Vdc

If the specification is not satisfied, adjust $\Delta R1678$ (1/4 W, 10 k Ω to 22 k Ω).

- 2) Switch input signals to fh: 31.47 kHz
fv: 60 Hz
and confirm that voltage at TP1501 is 7.0 ± 0.1 Vdc
- 3) Set voltage at Pin ⑨ of the D-21 connector to 2 V or less.
- 4) Select $\Delta R1729$ (1/4 W, 24 to 270 k Ω) so that voltage at TP1501 is 3.50 ± 0.05 Vdc, and solder it.

Horizontal Oscillation Frequency Adjustment

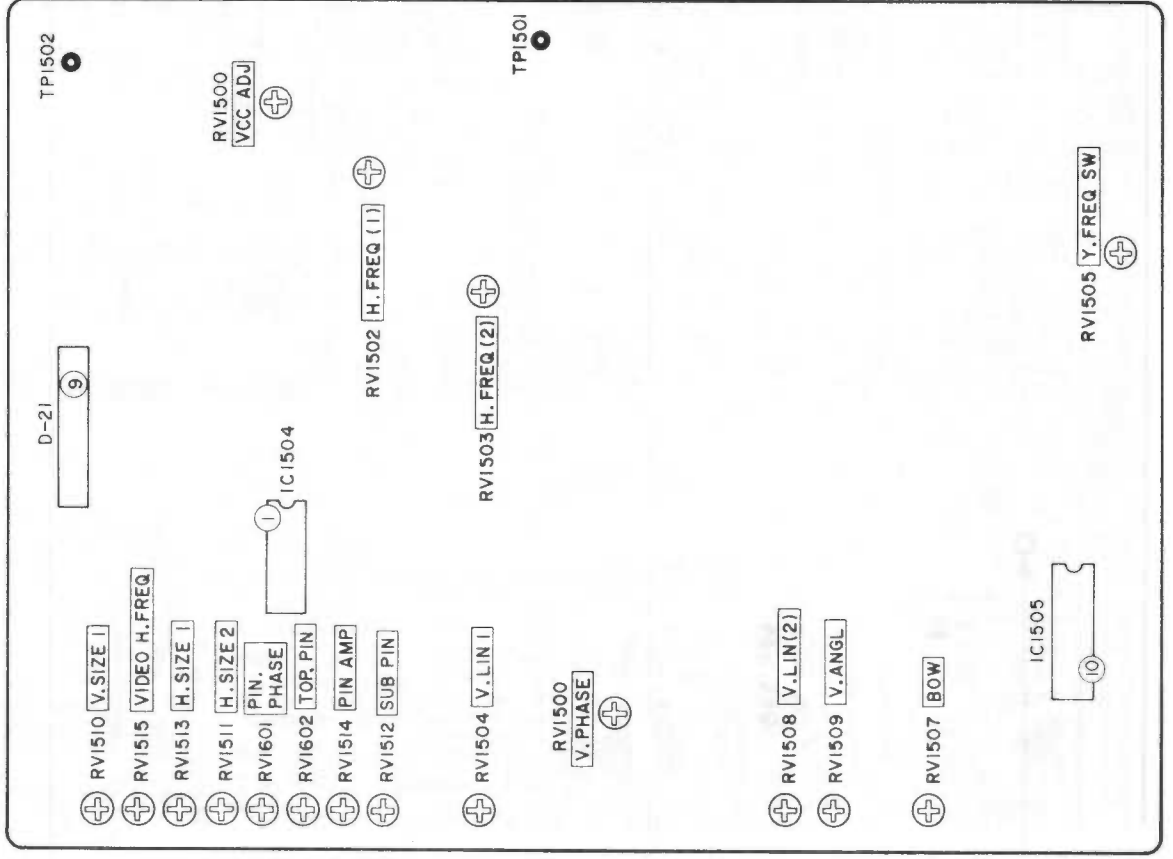
- Input signals
1. fh: 15.734 kHz fv: 60 Hz
 2. fh: 21.86 kHz fv: 60 Hz
 3. fh: 33.00 kHz fv: 60 Hz

* High level at Pin ⑨ of the D-21 connector

* Always perform Vc voltage adjustment first.

- 1) Connect a 10- μ F/16-V chemical capacitor between Pin ① of IC1504 and ground (D-26 connector).
- 2) Connect a frequency counter to Pin ⑩ of IC1505 (TP1507).
- 3) Confirm that RV1503 is set to the mechanical center, input signal No. 3 above and adjust RV1502 so that the counter reads 33.00 ± 0.1 kHz.
- 4) Change the input to signal No. 1 and adjust RV1503 so that the counter reads 15.734 ± 0.05 kHz.

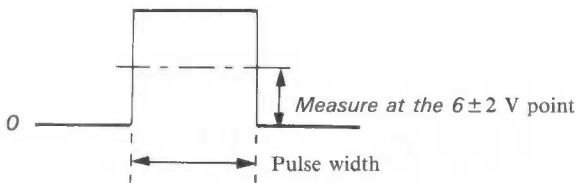
D2 Board



- 5) Change the input back to signal No. 3 and adjust RV1502 so that the counter reads 33.00 ± 0.1 kHz.
- 6) Change the input to signal No. 2 and confirm that the counter reads 21.86 ± 0.3 kHz.
- 7) Repeat steps 4 to 6 above and adjust tracking so that readings are within specifications for all three signals.
- 8) Change the input from RGB to VIDEO (turn level at Pin ⑦ of the D-21 connector to low) and receive a monoscope or color-bar signal.
- 9) Adjust RV1515 so that the counter reads 15.734 ± 0.1 kHz.

Horizontal Drive Pulse Adjustment

- 1) Input a signal of fh 15.734 kHz, fv 60 Hz, monitor Pin ⑩ (TP1507) of IC1505 with an oscilloscope and adjust Δ RV1670 (1/4 W, RN, 4.7 to 100 k Ω) so that pulse width becomes $24.0 \pm 1.5\mu\text{s}$.
- 2) Change the input signal to fh 31.47 kHz, fv 60 Hz, and confirm that pulse width is $12.0 \pm 1.0\mu\text{s}$.

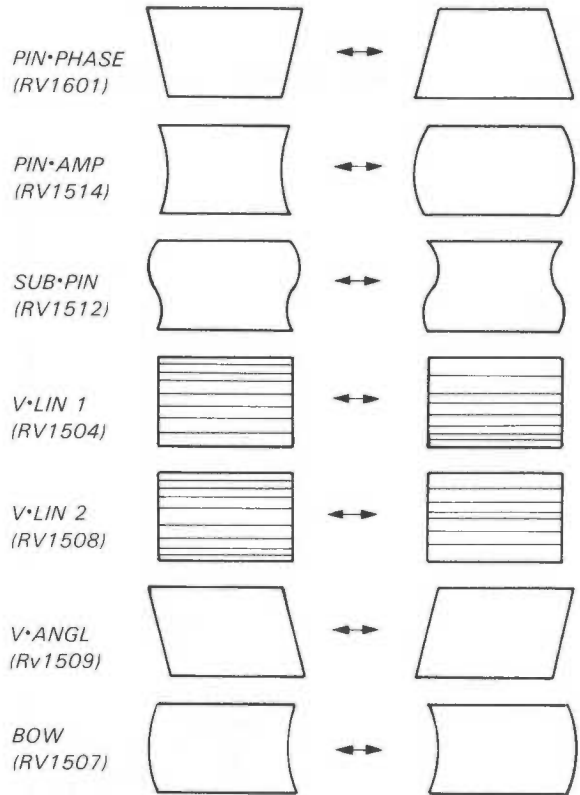


fh 15.734 kHz $24.0 \pm 1.5\mu\text{s}$
 fh 31.47 kHz $12.0 \pm 1.0\mu\text{s}$

Deflection Adjustment

- 1) In the VIDEO mode, input a monoscope signal, turn the controls listed below, and confirm that they work properly.

RV1510 V·SIZE 1
 RV1511 H·SIZE 2



Horizontal size specification: 15.0 ± 0.3 frame
 Vertical size specification: 11.2 ± 0.3 frame

- 2) Set the RGB mode and input a dot-hatch signal of fh 21.86 kHz and fv 60 Hz.
- 3) Coarsely adjust RV1513 (H·SIZE 1) and RV1602 (TOP·PIN). Reduce horizontal size by turning H·SIZE 1, and stop immediately before pincushion distortion appears.

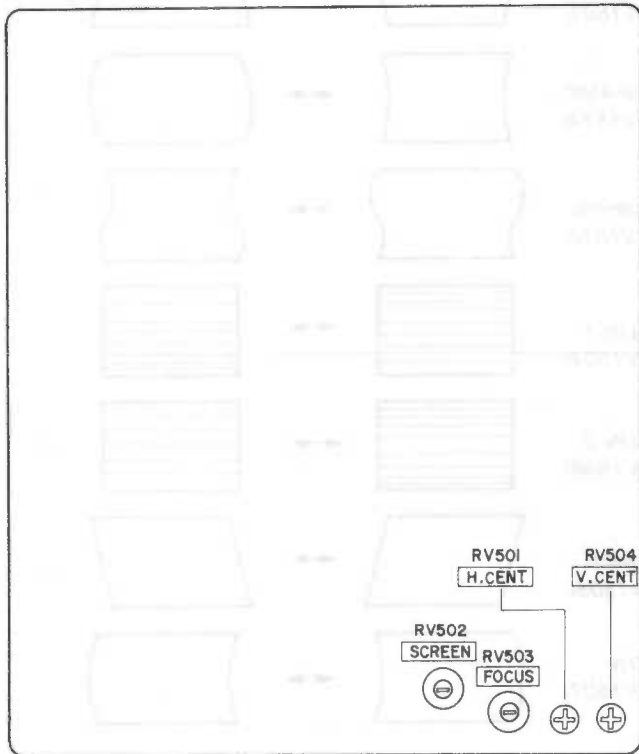


Note: When adjusting H·SIZE 1, be sure to set the H·SIZE user control to the minimum position.

- 4) Turn the controls below and confirm that they work properly. Then return them to their mechanical centers.

- RV501 H•CENT
- RV504 V•CENT
- RV502 SCREEN
- RV503 FOCUS

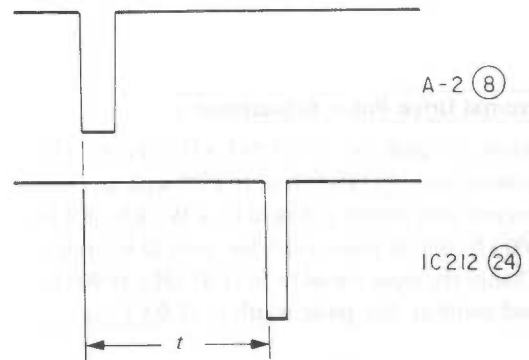
D1 Board



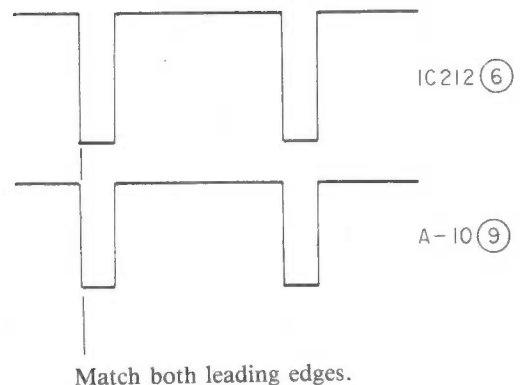
5-2. A BOARD ADJUSTMENT

Input a signal to RGB A.

- (1) Press RGB A.
- (2) Confirm that a voltage of $12\text{ V} \pm 5\text{ V}$ is output to Pin ② of A-2.
- (3) Set f_H to $33.00\text{ kHz} \pm 0.05\text{ kHz}$ (negative polarity sync).
- (4) Monitor Pin ⑧ of A-2 and Pin ⑳ of IC212, and adjust RV201 [H.SHIFT] on the A board to $t = 24.5\mu\text{s} \pm 0.1\mu\text{s}$ in the figure below.



- (5) Press LINE A.
- (6) Input a monoscope signal to LINE A.
- (7) Monitor Pin ⑥ of IC212 and Pin ⑨ of A-10.
- (8) Adjust RV202 [H.PHASE] on the A board so that both sync leading edges match in the figure below.



Vertical Sync Frequency Recognition Circuit Adjustment

- * High level at Pin ⑨ of the D-21 connector

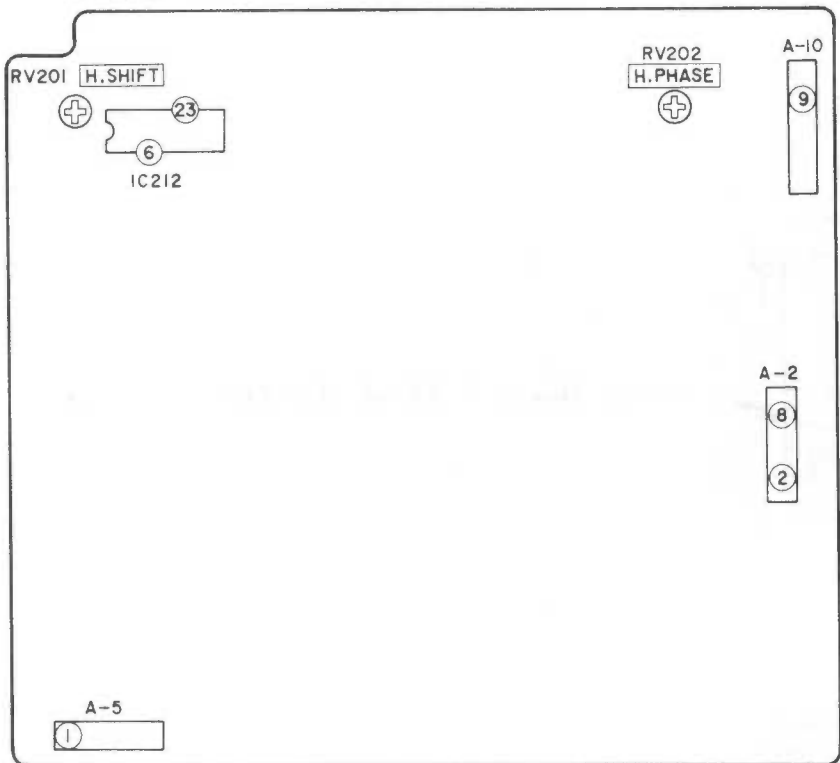
 - 1) In the RGB mode, input a signal of $f_H 15.7\text{ kHz}$ and $f_V 64\text{ kHz}$.
 - 2) Adjust RV1505 to the exact point where vertical size is enlarged.

+ B (Vcc) Adjustment

- * High level at Pin ⑨ of the D-21 connector

 - 1) Input a color-bar signal of $f_H 21.8\text{ kHz}$ and $f_V 60\text{ Hz}$.
 - 2) Adjust RV1501 so that voltage at TP1502 (Vcc) becomes $77.0 \pm 0.5\text{ Vdc}$.

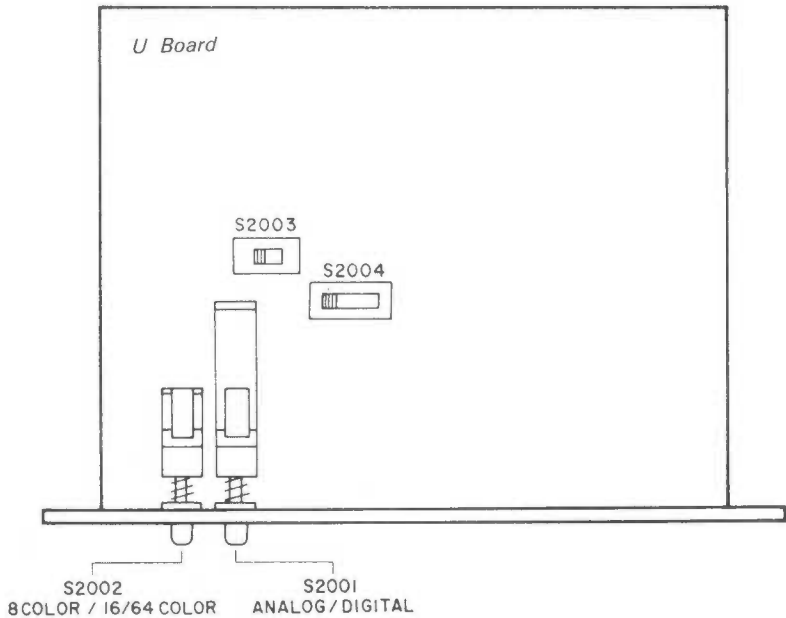
A Board

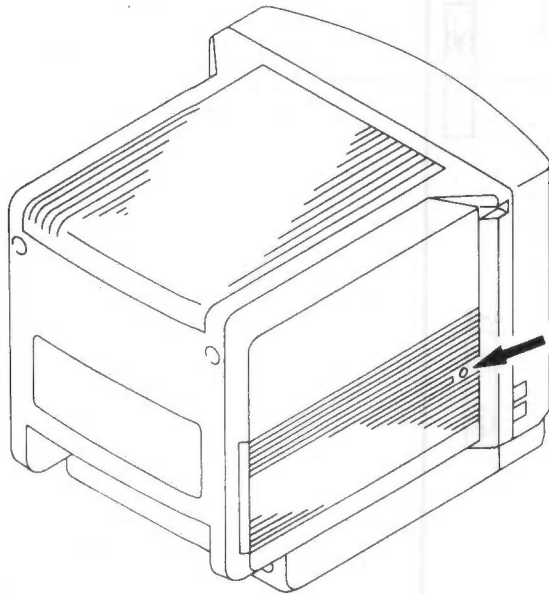


Service Switches on the U Board

Normally, when a digital signal is input, differentiation between MDA (monochrome), CGA (16 colors) and EGA (64 colors) can be performed automatically according to sync polarity by setting S1 to 16/64 COLOR. When automatic differentiation is not possible due to signal condition, S2004 is used. S2004 is normally set to the "8" position at the factory. Change it to 16, 64 or MONO. Then switch S1 to the 8 COLOR position

(S1 can be switched between 8 COLOR and 16/64 COLOR, but the display mode when set to 8 COLOR can actually be selected with S2004). S2003, on the other hand, is used to switch display color in the monochrome mode between green and amber. It is normally set to the green position at the factory.





About the Hole on the left side of the Unit

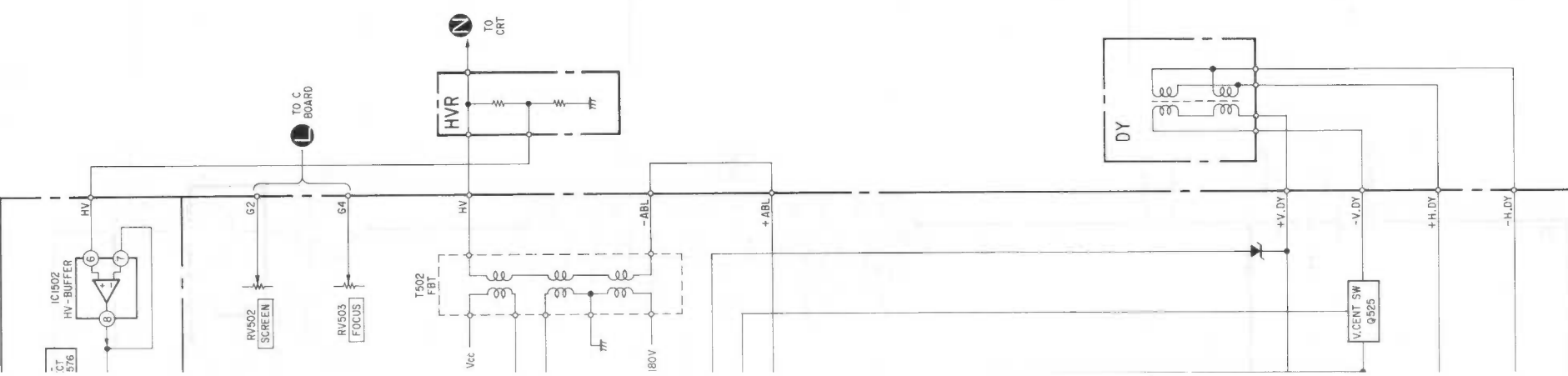
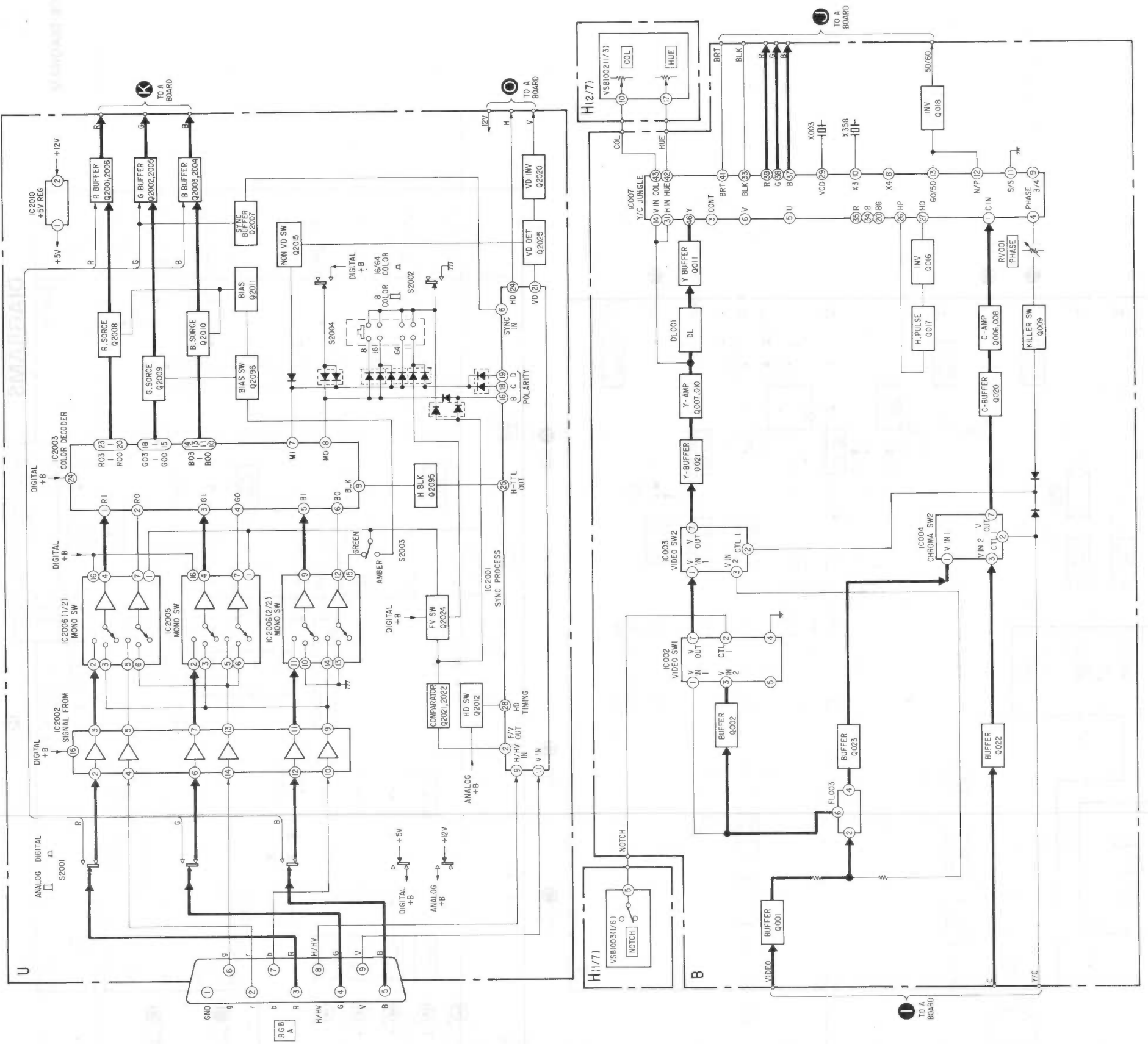
Depending on the input signal, pincushion distortion may occur (this is likely when connecting a NEC PC-9801 or Apple MAC II computer, etc.). In that case, insert a 2-mm screwdriver into the hole on the left side of the unit and turn it to correct distortion.

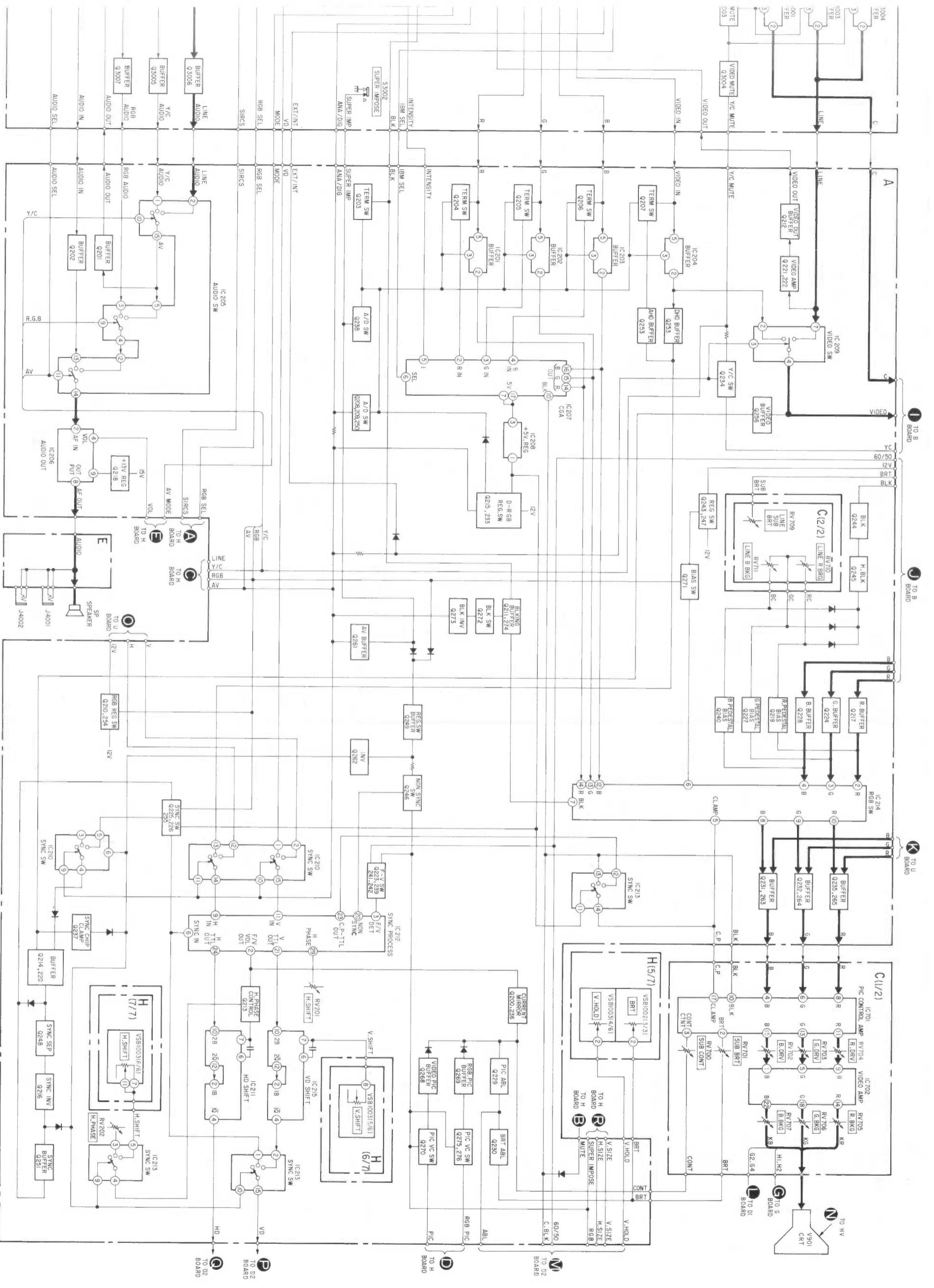
When the input signal is not correct, the picture will be distorted. In this case, insert a 2-mm screwdriver into the hole on the left side of the unit and turn it to correct the distortion.

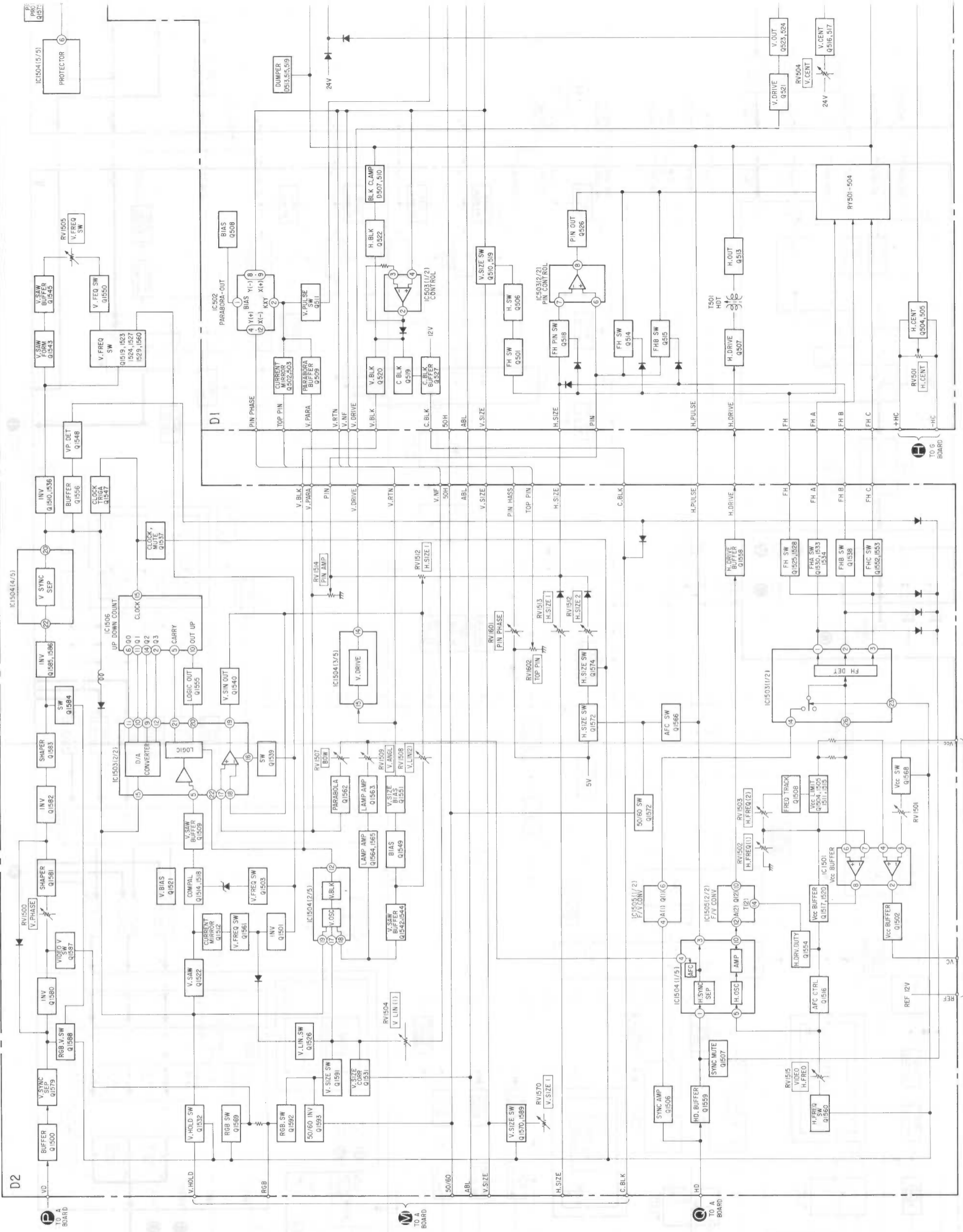
When the input signal is not correct, the picture will be distorted. In this case, insert a 2-mm screwdriver into the hole on the left side of the unit and turn it to correct the distortion.



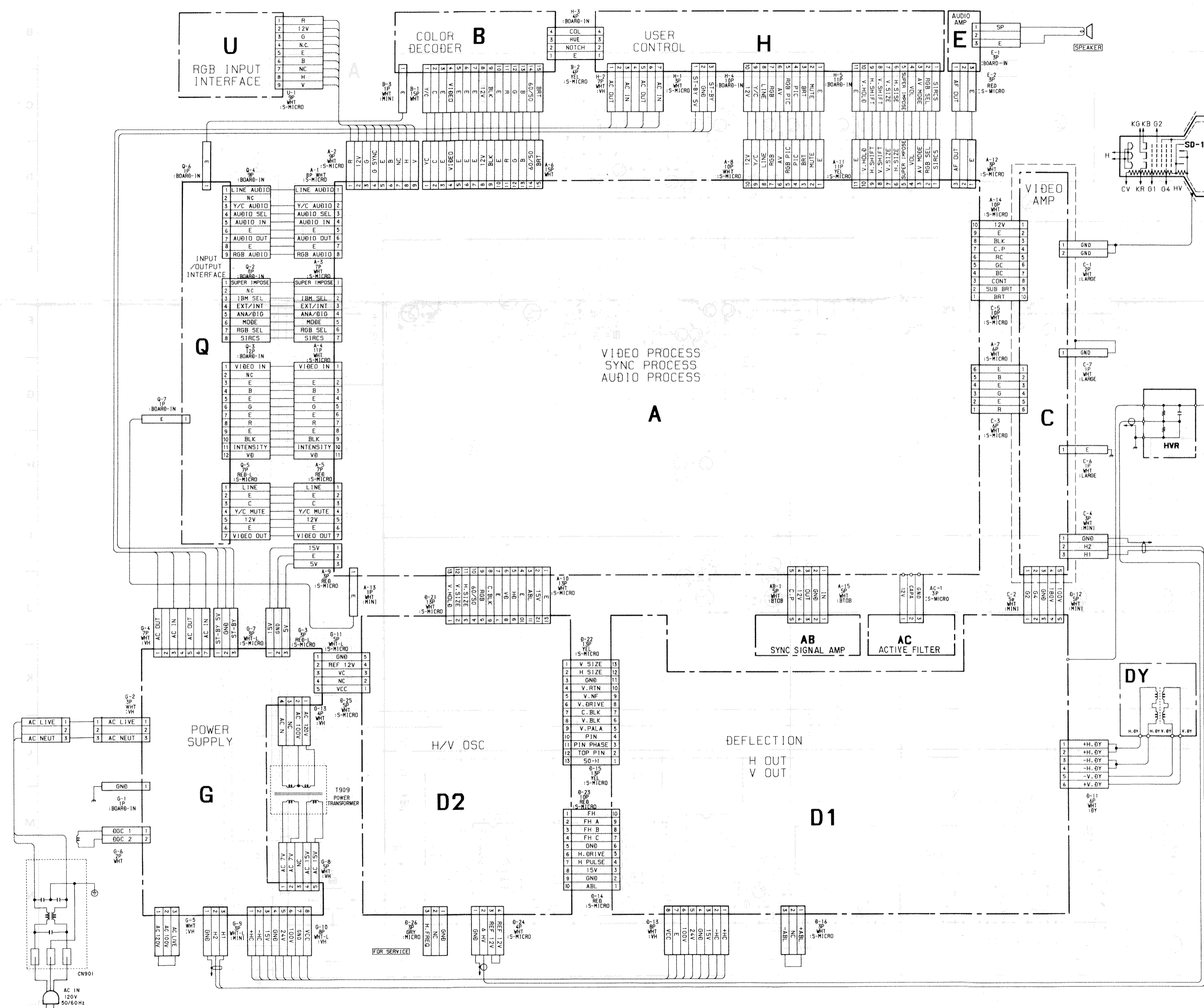
SECTION B



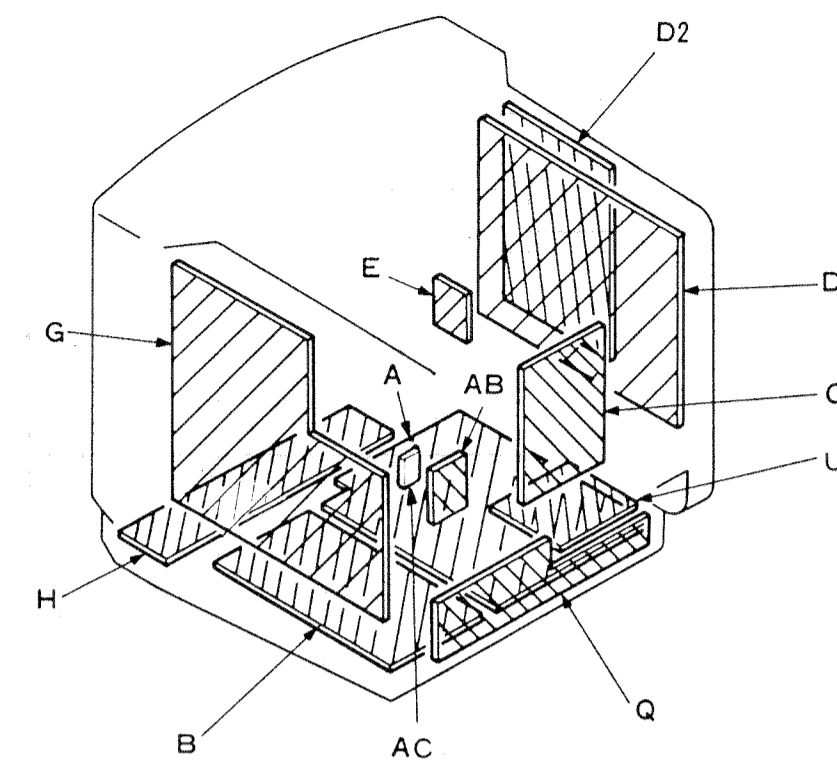




6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



Note :

- All resistors are in ohms. 1/10W unless otherwise noted. kt: 1000Ω, MΩ: 100kΩ.
- All capacitors are in μF unless otherwise noted. pF: μF. 50V or less are not indicated except for electrolytics and tantalums.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭: nonflammable resistor.
- ▭: fusible resistor.
- : panel designation and adjustment for repair.
- Δ: internal component.
- Adjustment resistor measurement impossibility (D2 BOARD R1670, R1729, R1751)

- Circled numbers refer to waveforms.
- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage variations may be noted due to normal production tolerance.
- Can not be measured.
- B + line.
- B - line.

- No Mark : VIDEO IN
- () : S-VIDEO
- < > : DIGITAL
- ⊞ : signal path.

- The components identified by **H** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by **Δ**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **H** and repeat the adjustment until the specified value is achieved. (Refer to R1678, R1548 adjust on page 20)
- When replacing the part in below table be sure to perform the related adjustment.

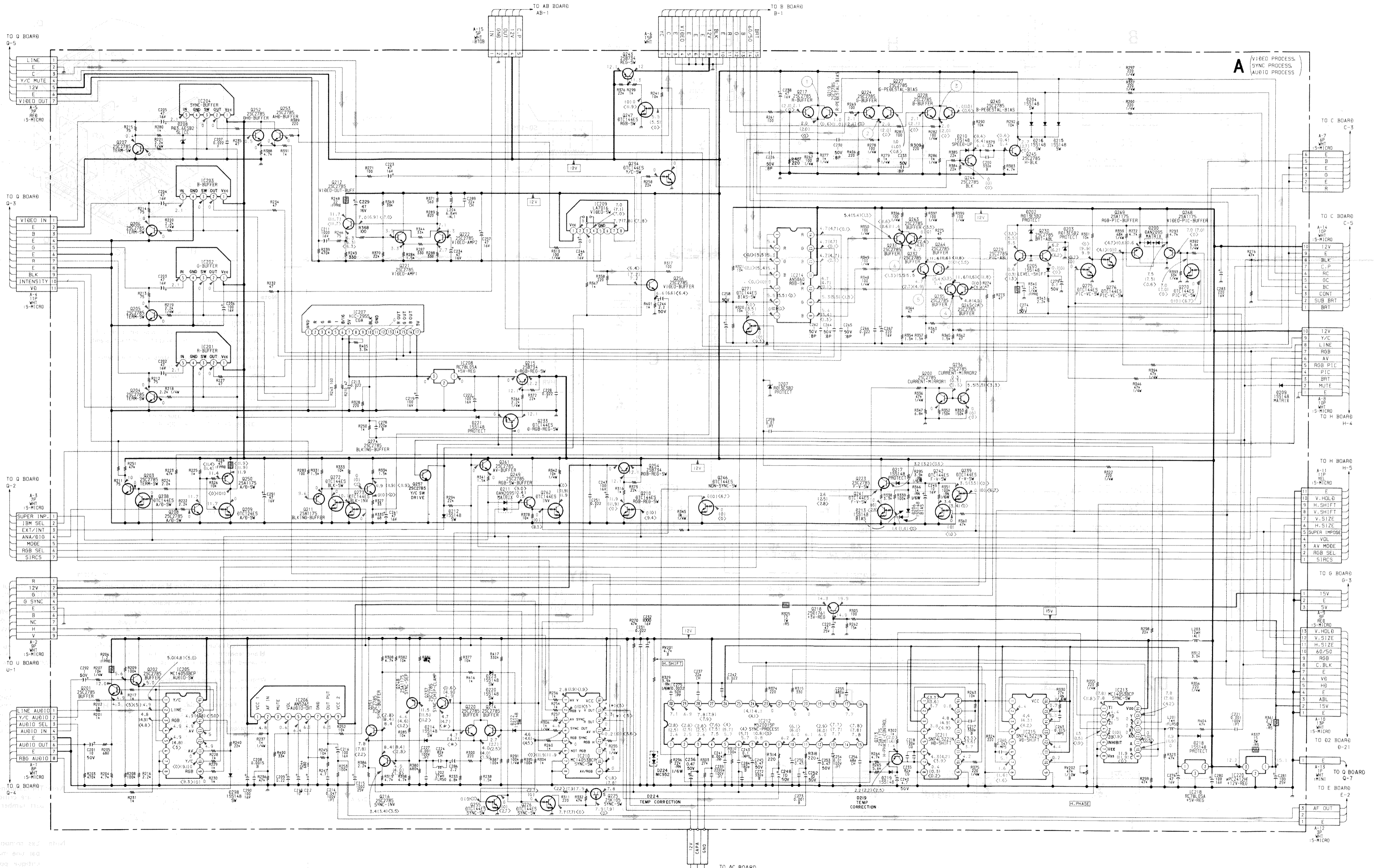
Reference information	RESISTOR	RESISTOR	METAL FILM
	RC		SOLID
	FPRD		NONFLAMMABLE CARBON
	FUSE		NONFLAMMABLE FUSIBLE
	RW		NONFLAMMABLE WIREWOUND
	RS		NONFLAMMABLE METAL OXIDE
	RB		NONFLAMMABLE CEMENT
COL	LF-BL		MICRO INDUCTOR
CAPACITOR	TA		TANTALUM
	PS		STYROL
	PP		POLYPROPYLENE
	PT		MYLAR
	MPS		METALIZED POLYESTER
	MPP		METALIZED POLYPROPYLENE
	ALB		BIPOLAR
	ALT		HIGH TEMPERATURE
	ALR		HIGHRIIPPLE

Part replaced (Δ)	Adjustment (H)
IC501, IC503, IC505, Q1502, R1503, R1504, R1507, R1508, R1509, R1510, R1511, R1516, R1519, R1521, R1522, R1534, R1540, R1541, R1546, R1565, R1642, R1653, R1673, R1678, D2 BOARD	R1678 (+B (Vcc) MAX) D2 BOARD
R592, B595 ... D1 BOARD	
R907, R916, R919 ... (IG BOARD32)	
IC1502, IC1504, D1510, R1616, R1622, R1625, R1626, R1631, R1548, R1548, R1552, R1553, R1554, R1564 ... D2 BOARD,	R1548 (HOLD-DOWN D2 BOARD)

Note: The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque **Δ** sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

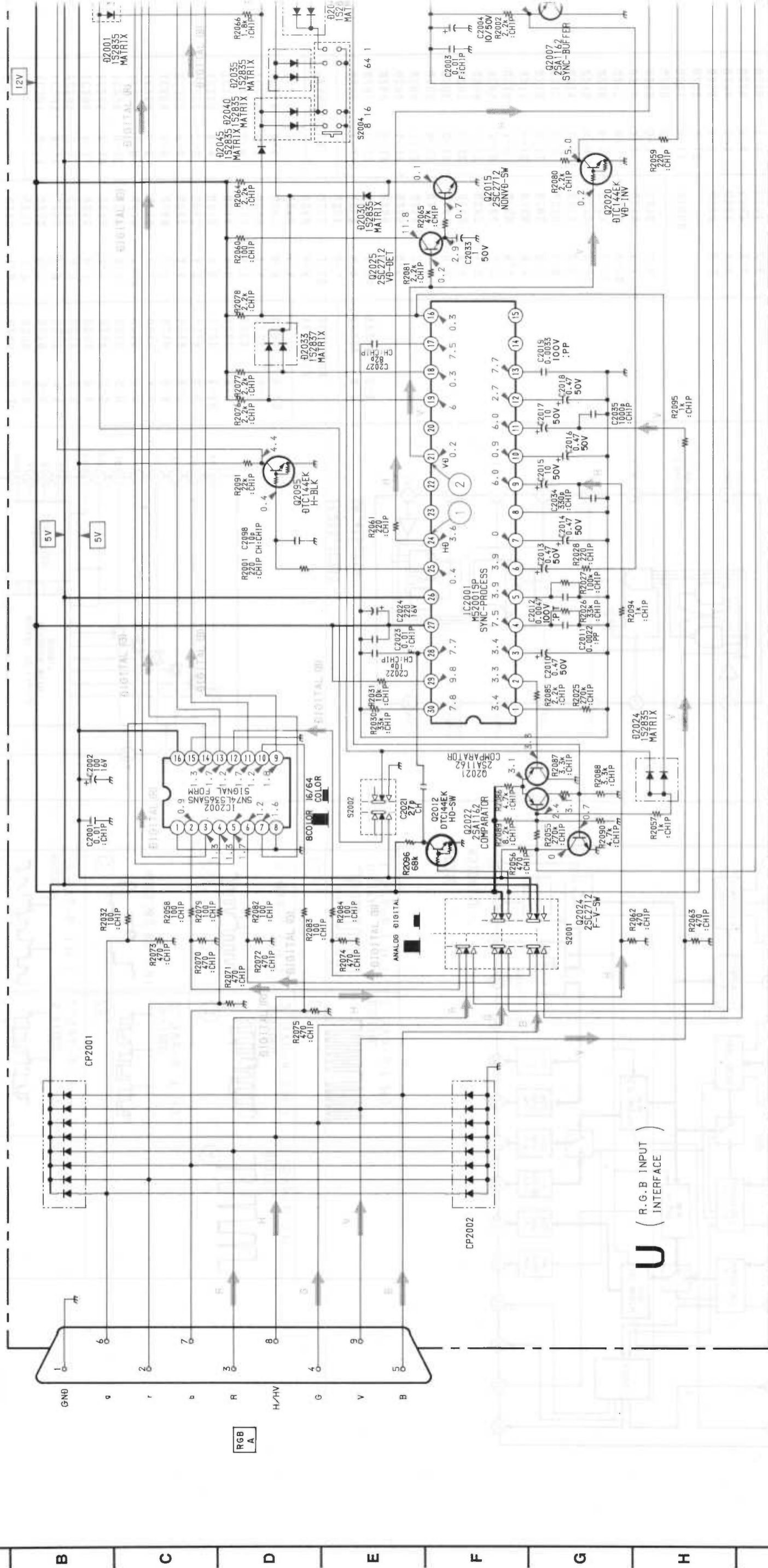
6.4. SCHEMATIC DIAGRAM



GVM-1300 GVM-1300

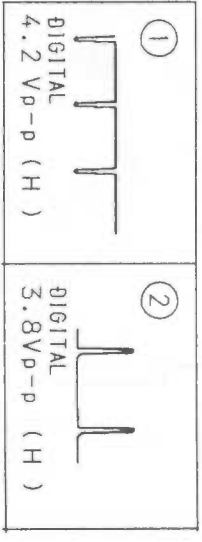
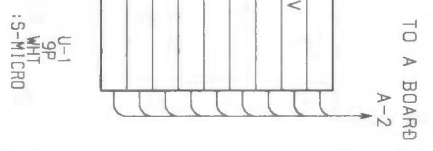
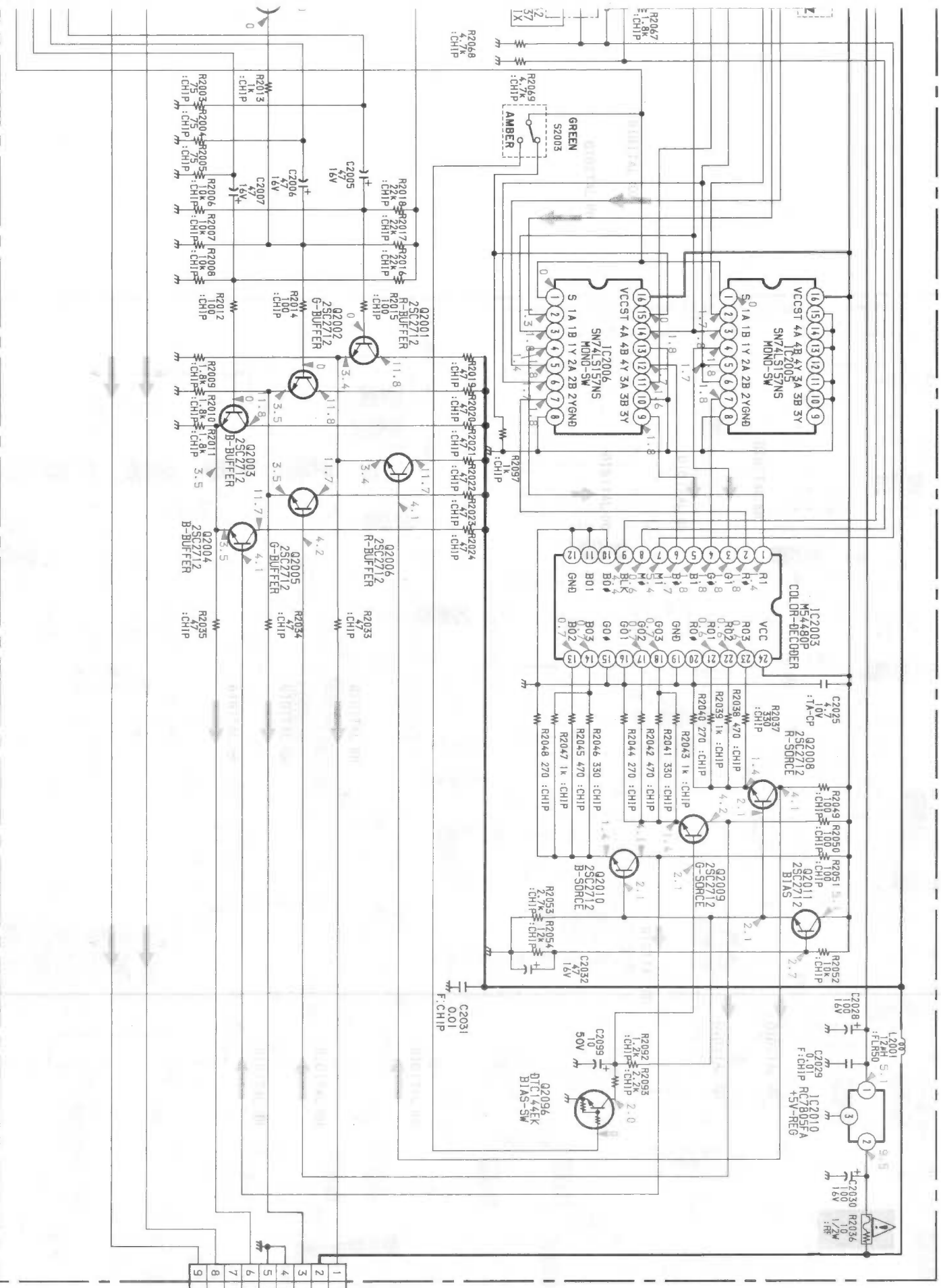
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A



U (R.G.B INPUT INTERFACE)

GVM-1300 GVM-1300

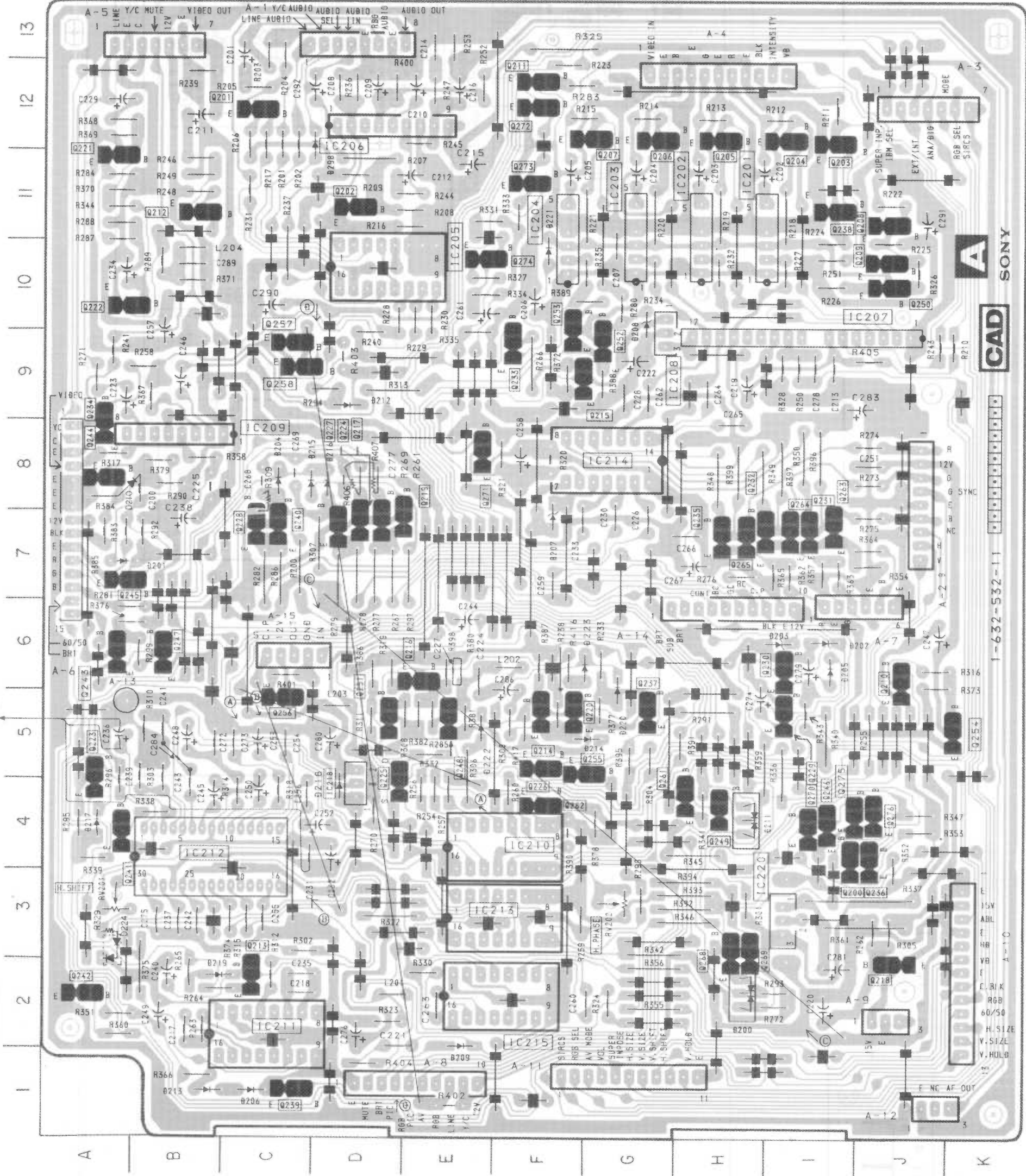


GVM-1300 GVM-1300

A VIDEO PROCESS, SYNC PROCESS,
AUDIO PROCESS

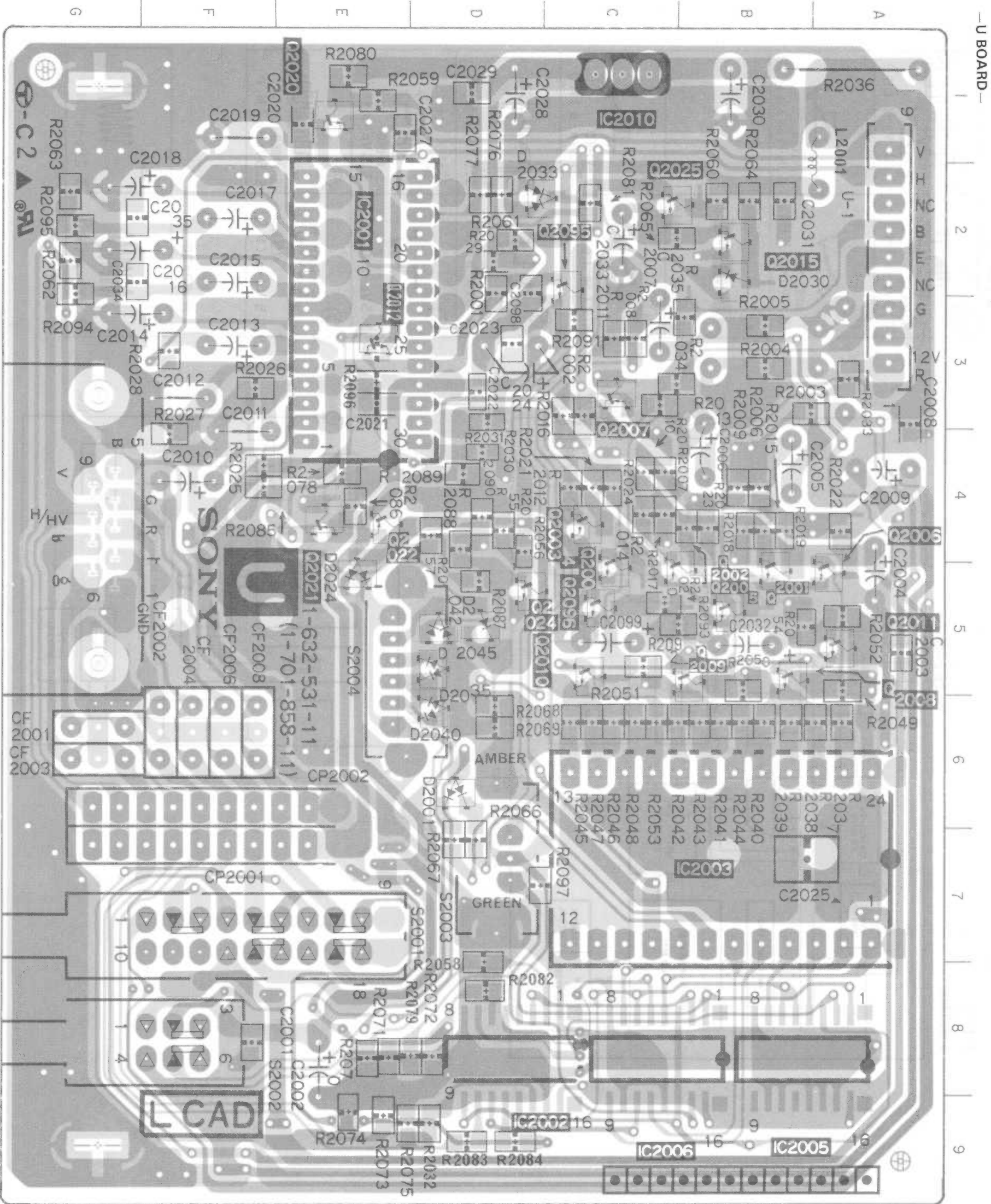
6-5. PRINTED WIRING BOARD

-A BOARD-



1-632-532-11

U
IR.G.B. INPUT INTERFACE



—U BOARD—

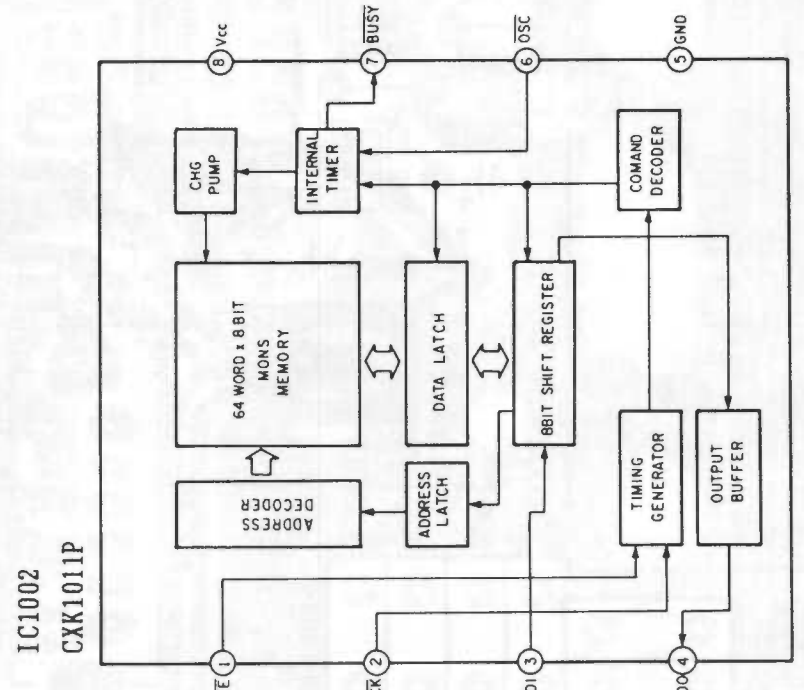
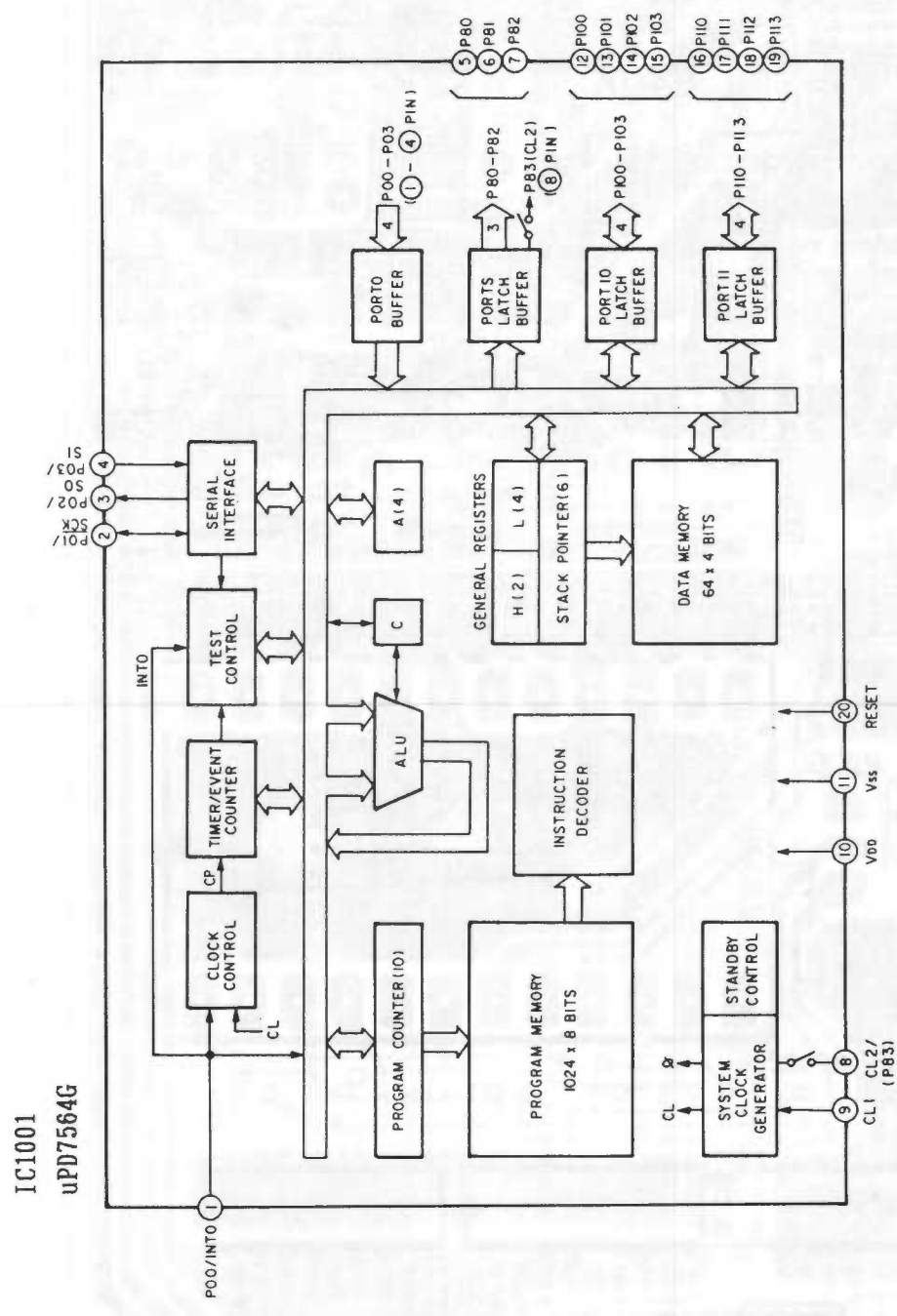
1 2 3 4 5 6 7 8 9

G-C 2

B BOARD	
IC	
IC002	B-8
IC003	A-8
IC004	D-11
IC006	E-6
IC007	E-4
TRANSISTOR	
Q001	B-10
Q002	A-10
Q004	C-7
Q006	A-6
Q007	B-1
Q008	A-1
Q009	E-10
Q010	C-1
Q011	F-1
Q016	D-6
Q017	D-6
Q018	B-6
Q020	A-6
Q021	B-7
Q022	E-8
Q023	E-12
DIODE	
D002	B-7
D003	D-6
D004	A-9
D005	B-9
VARIABLE RESISTOR	
RV001	D-5

H BOARD	
IC	
IC1001	F-3
IC1002	D-3
IC1003	I-3
IC1004	I-3
TRANSISTOR	
Q1001	J-2
Q1002	J-2
Q1003	L-3
Q1004	M-3
Q1005	M-3
Q1006	E-3
Q1007	K-4
Q1008	K-4
Q1013	N-3
Q1014	N-3
Q1015	E-3
Q1019	L-2
Q1021	N-3
Q1022	K-2
DIODE	
D1000	F-4
D1001	E-4
D1002	N-2
D1003	D-2
D1004	??
D1005	L-2
D1006	H-4
D1007	K-2

GVM-1300 GVM-1300

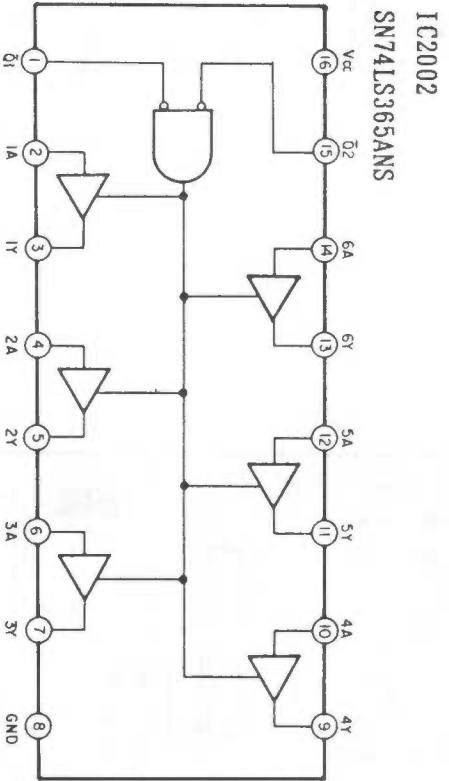
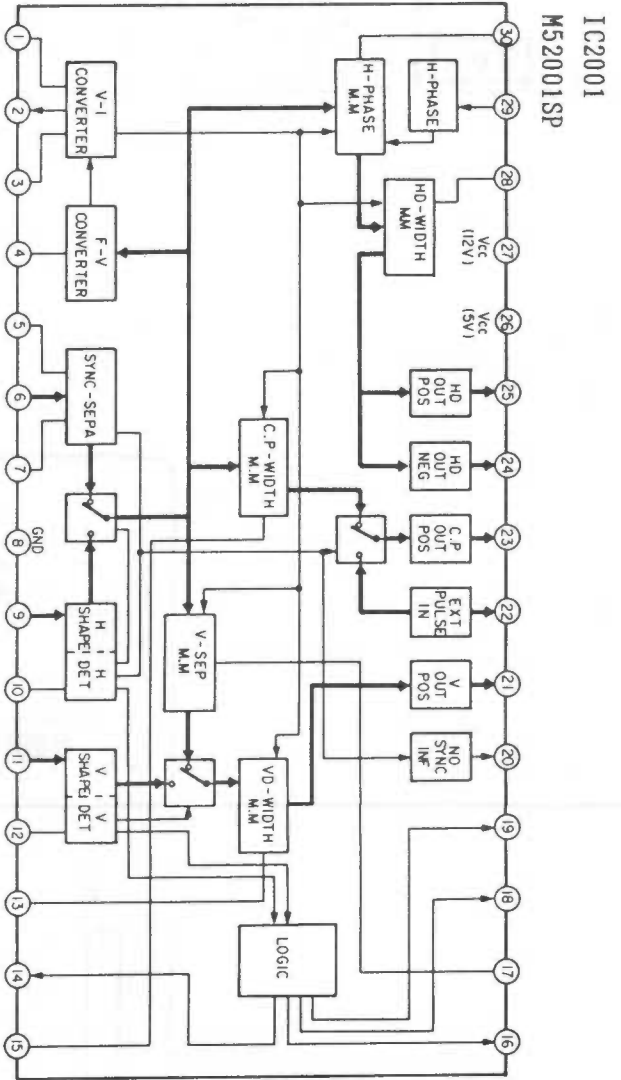


B BOARD			
①	NTSC3.58 0.9Vp-p (H)	①	S-VI0E0 1.0 Vp-p (H)
②	NTSC3.58 0.9Vp-p (H)	②	S-VI0E0 0.8 Vp-p (H)
③	NTSC3.58 0.2Vp-p(H)	④	S-VI0E0 3.5Vp-p (H)
④	NTSC3.58 1.0 Vp-p(H)	⑤	S-VI0E0 3.5Vp-p (H)
⑤	NTSC3.58 3.5Vp-p (H)	⑥	S-VI0E0 3.5Vp-p (H)
⑥	NTSC3.58 3.5Vp-p (H)	⑦	S-VI0E0 3.5Vp-p (H)
⑦	NTSC3.58 3.5 Vp-p (H)		

H BOARD			
①	2.8Vp-p (H)	②	3.2Vp-p (H)

U BOARD

IC	
IC2001	E-2
IC2002	D-8
IC2003	B-7
IC2005	B-8
IC2006	C-8
IC2010	C-1
TRANSISTOR	
Q2001	B-5
Q2002	B-5
Q2003	C-4
Q2004	C-5
Q2005	B-5
Q2006	A-5
Q2007	C-3
Q2008	B-5
Q2009	B-5
Q2010	C-5
Q2011	A-5
Q2012	E-3
Q2015	B-2
Q2020	E-1
Q2021	E-4
Q2022	E-4
Q2024	D-5
Q2025	B-2
Q2095	C-2
Q2096	C-5
DIODE	
D2001	D-6
D2024	E-5
D2030	B-2
D2033	D-2
D2035	D-5
D2040	D-6
D2042	D-5
D2045	D-5



(USER CONTROL)

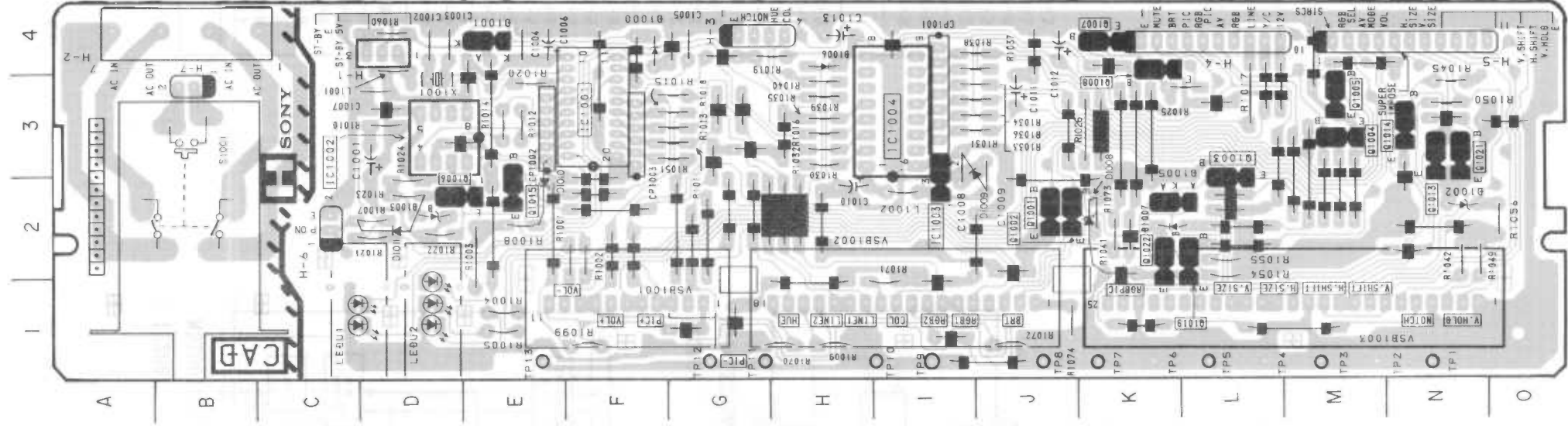
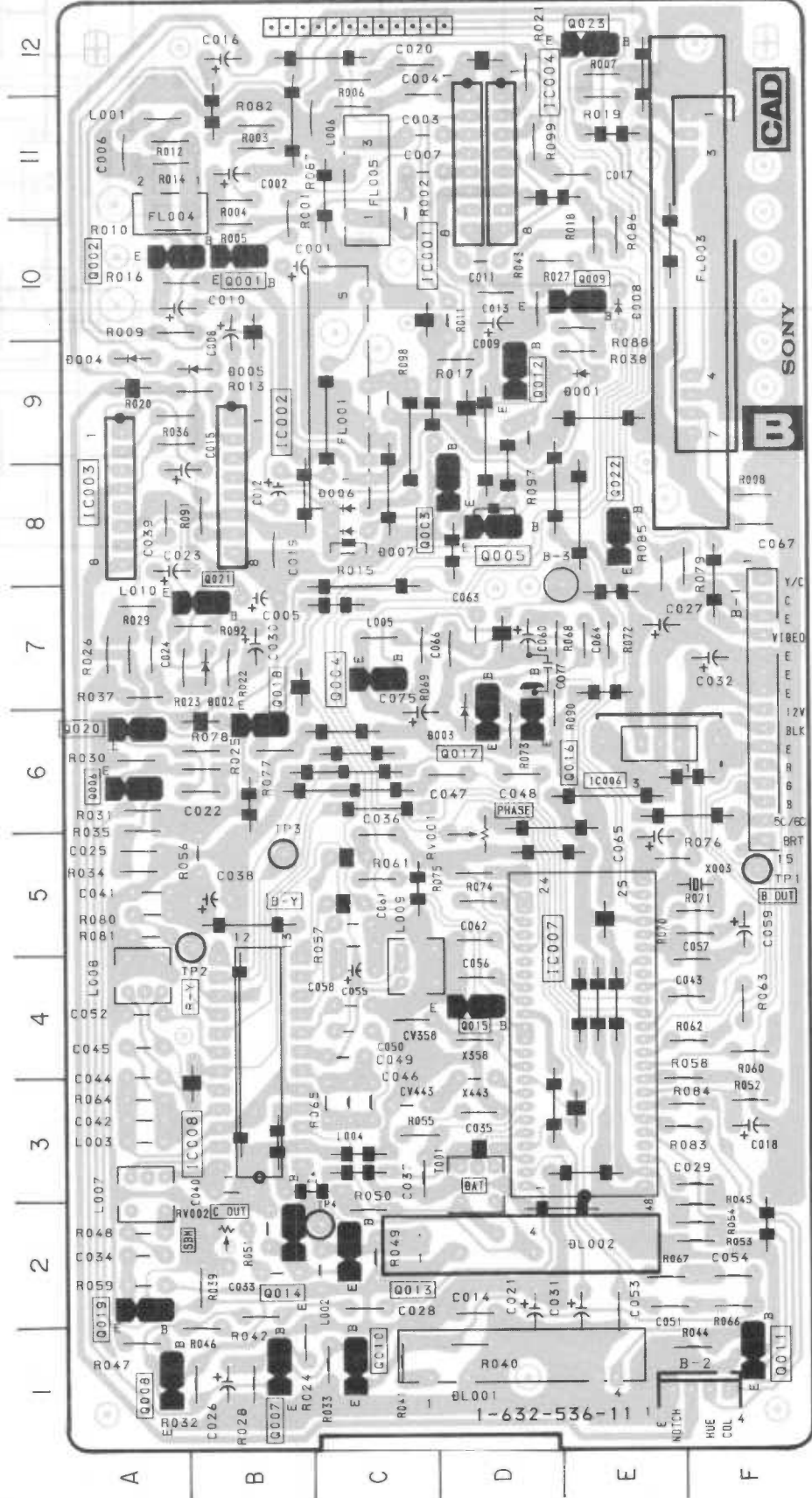
H

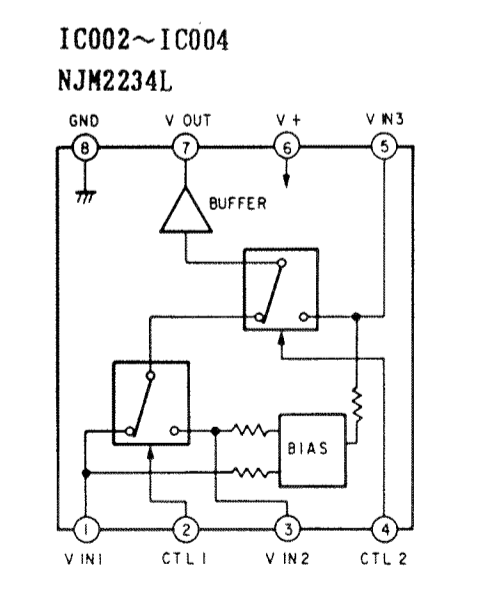
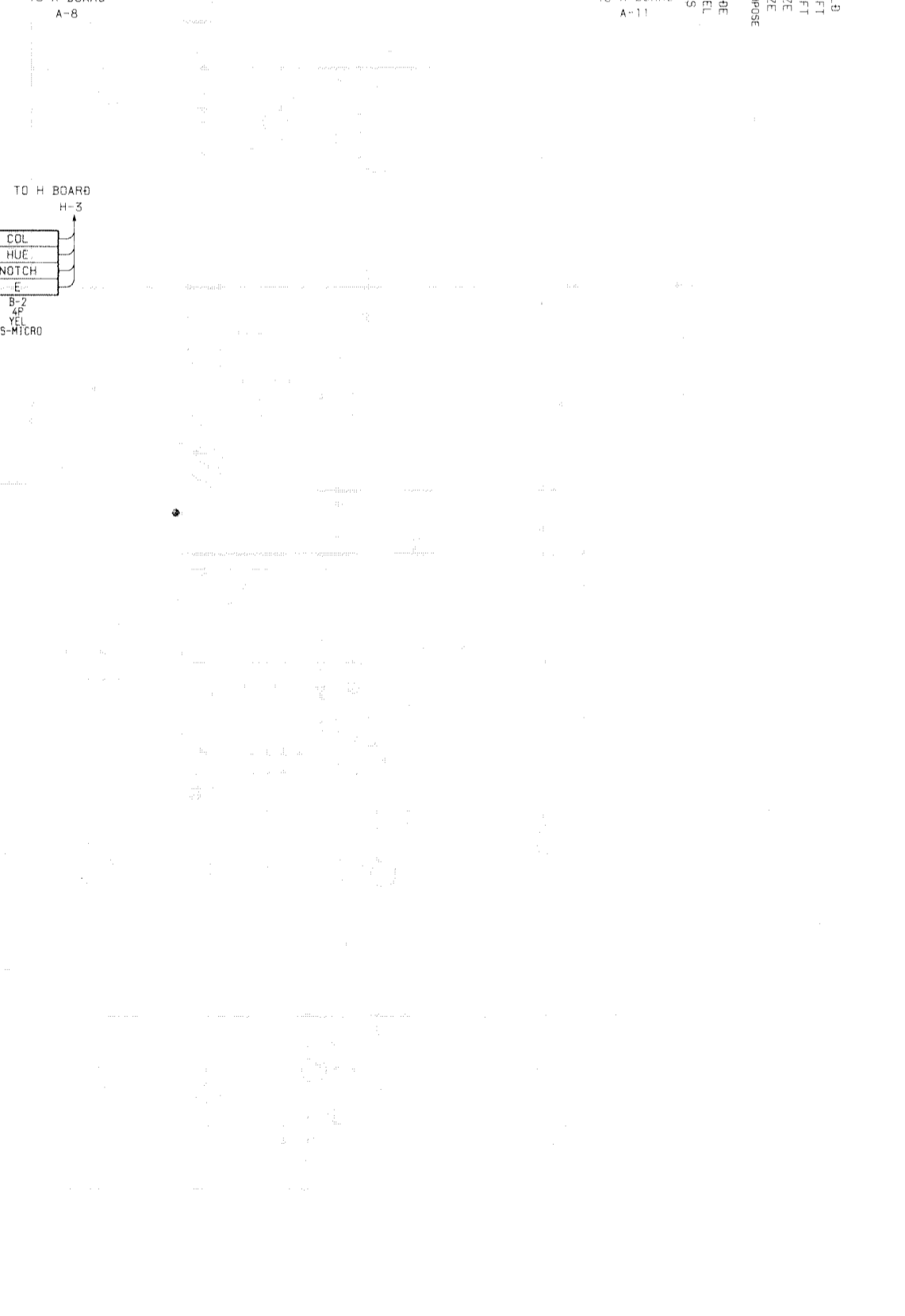
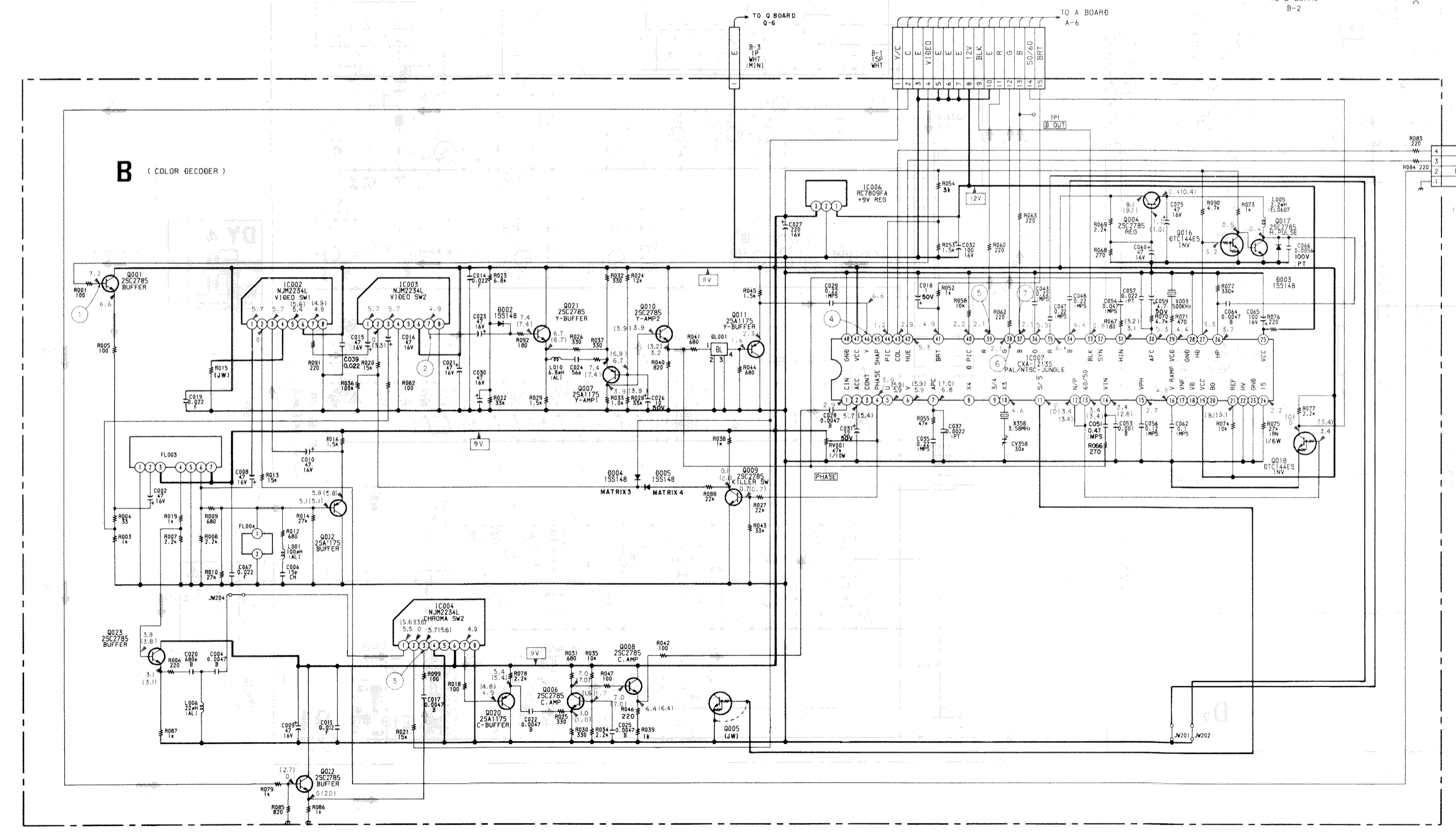
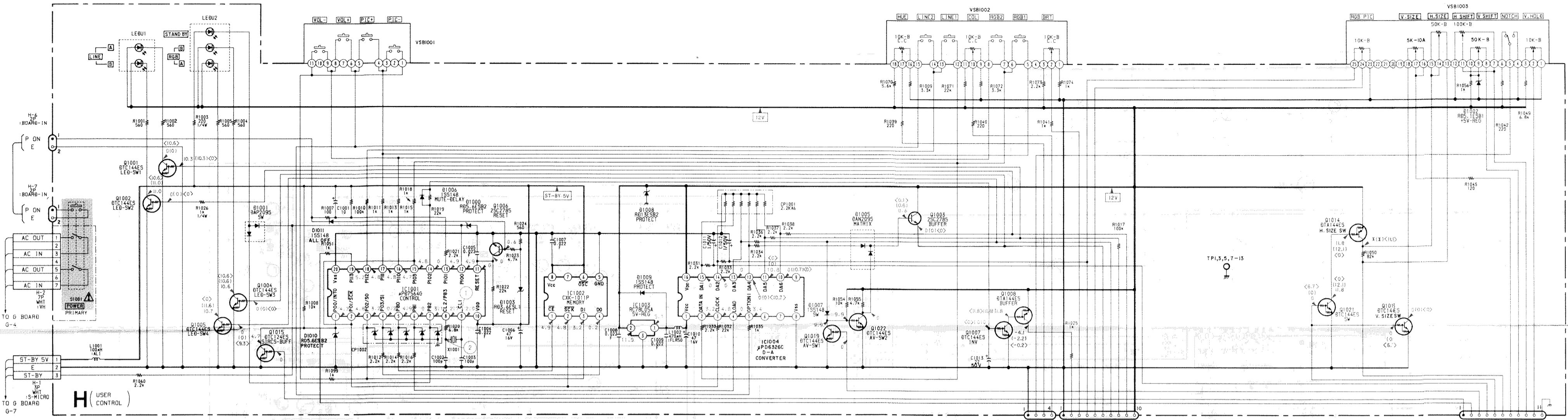
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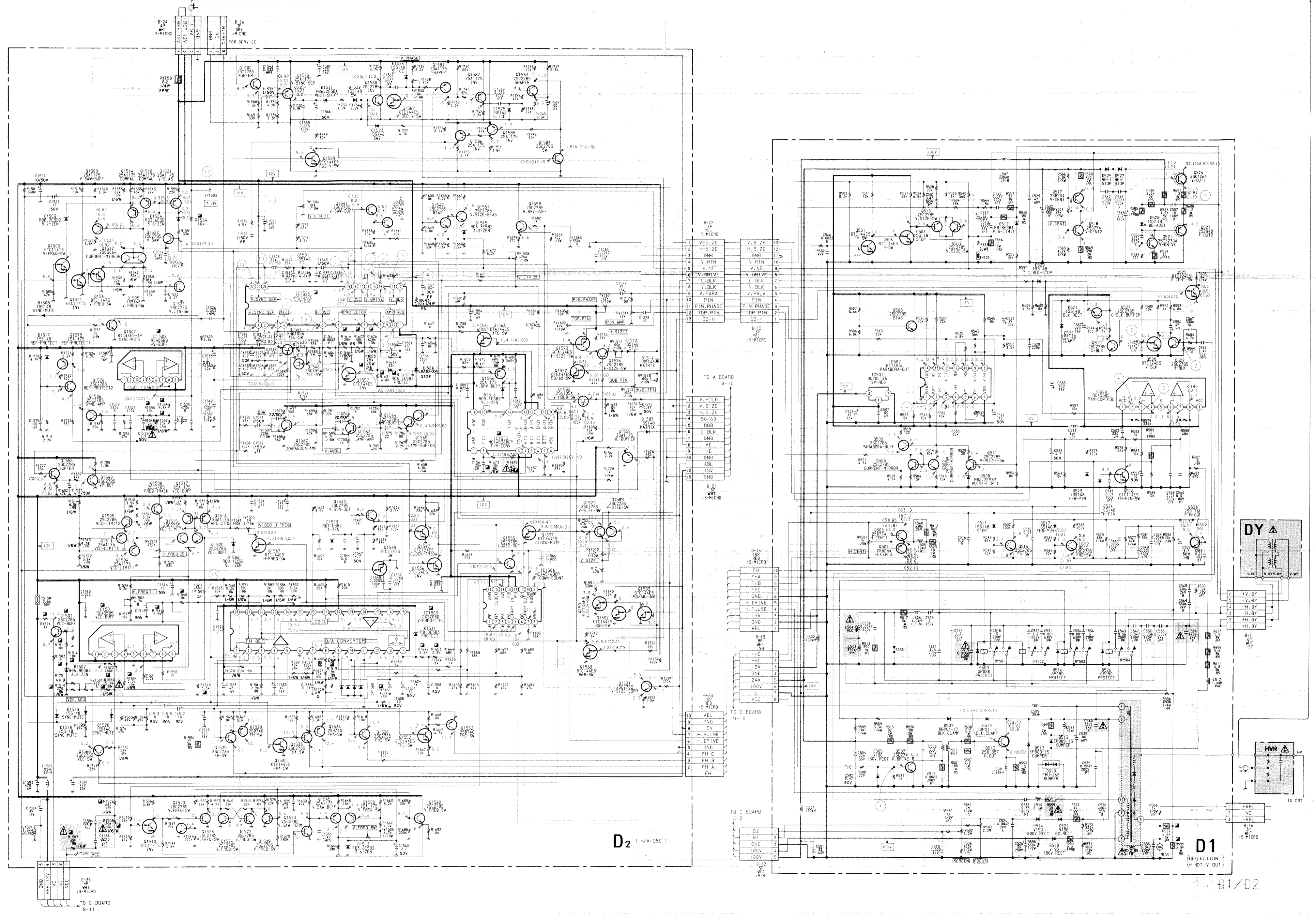
B

—B BOARD—

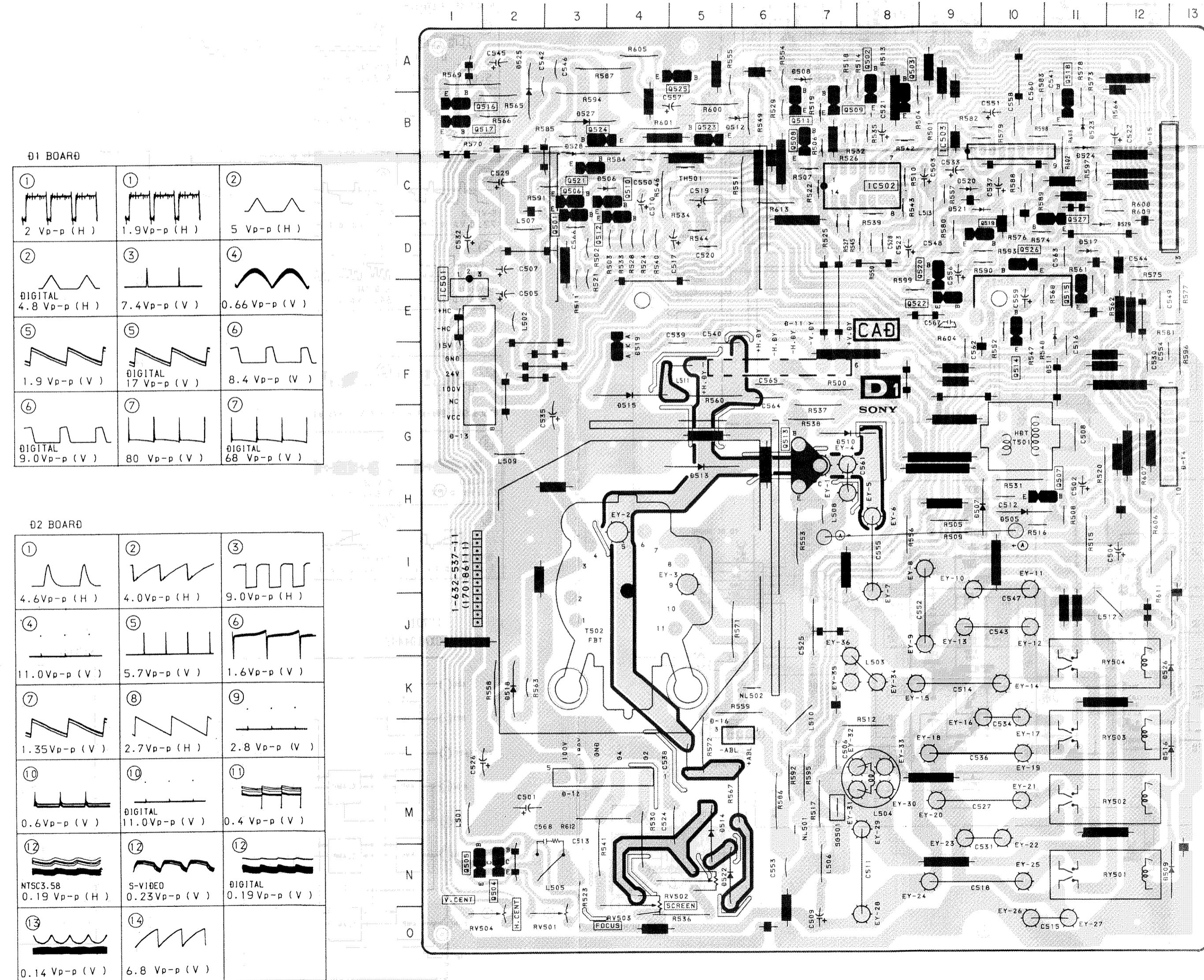
—H BOARD—



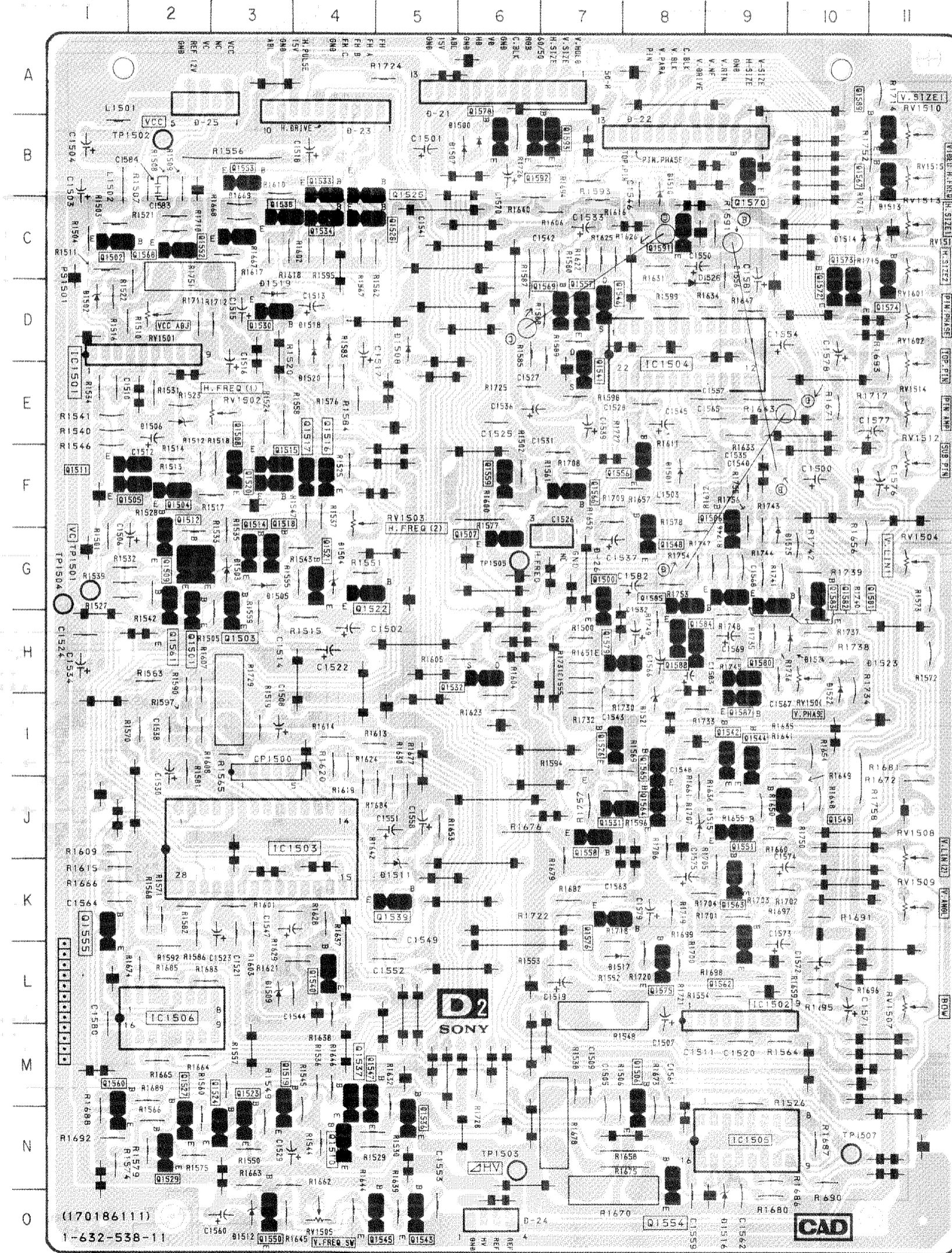




-D1 BOARD-



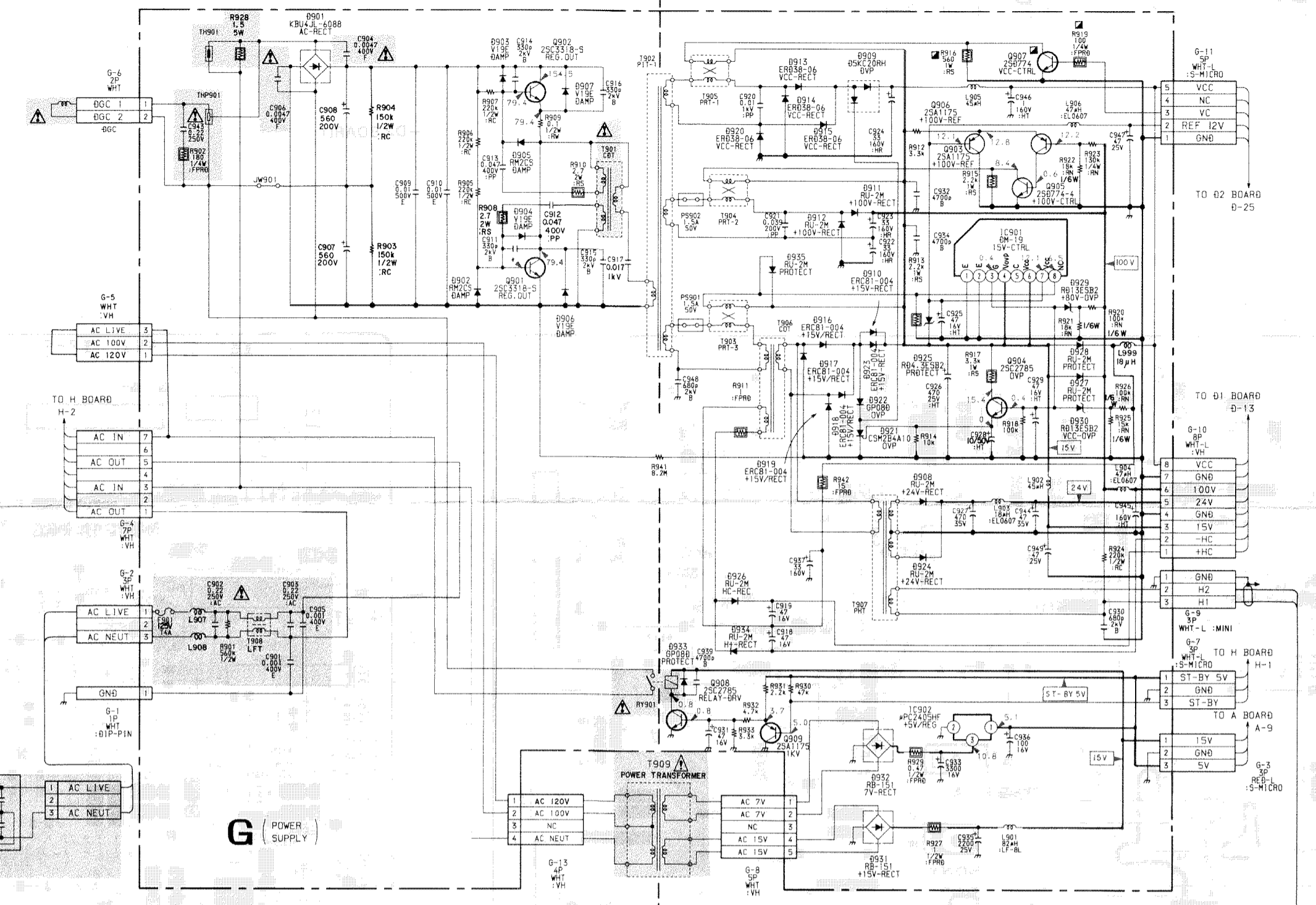
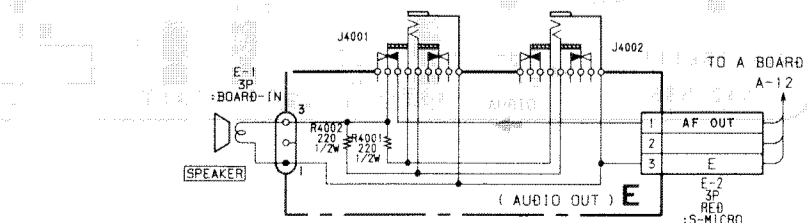
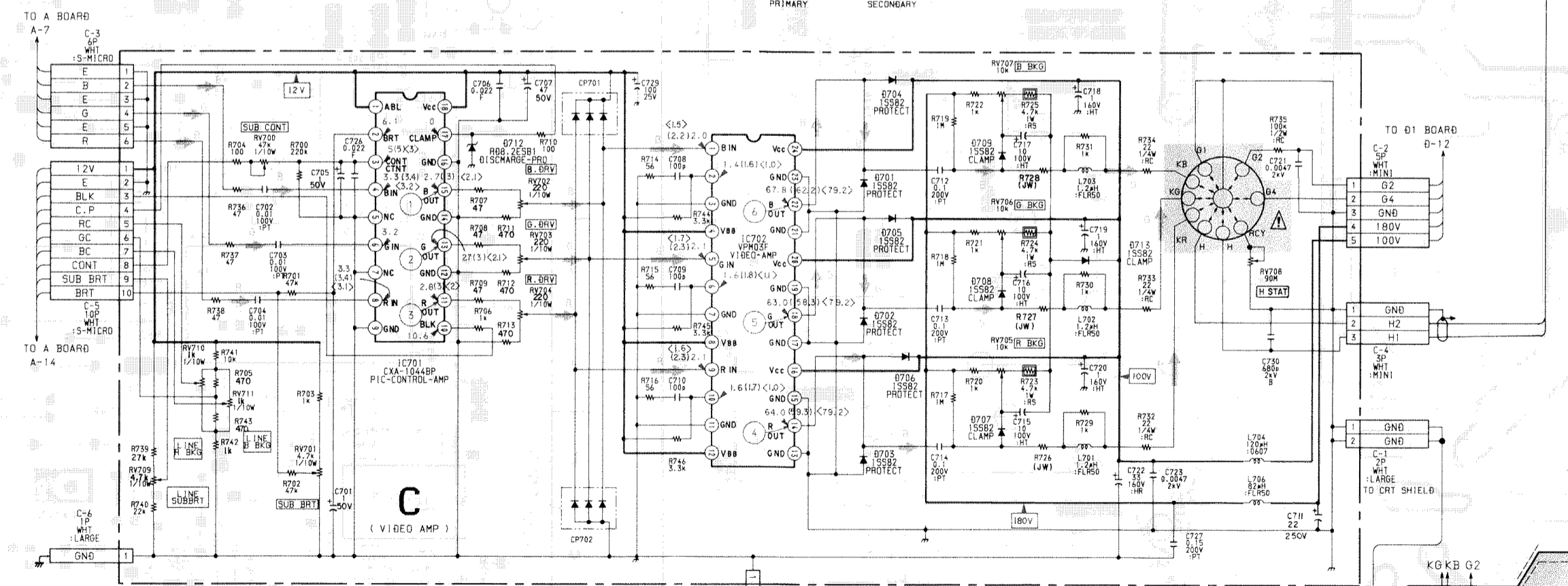
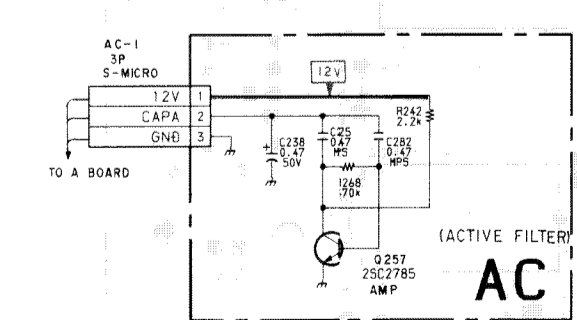
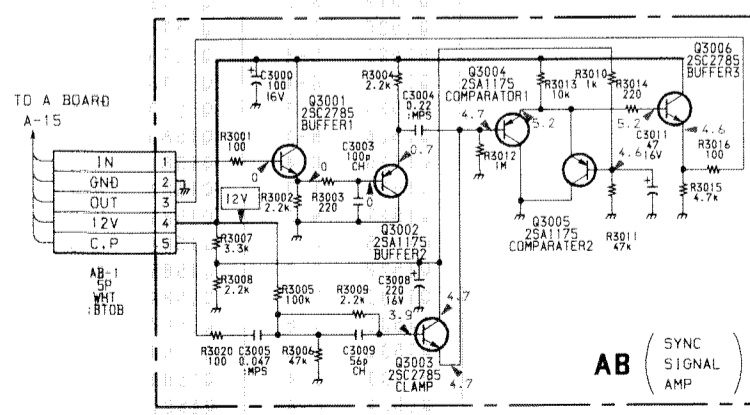
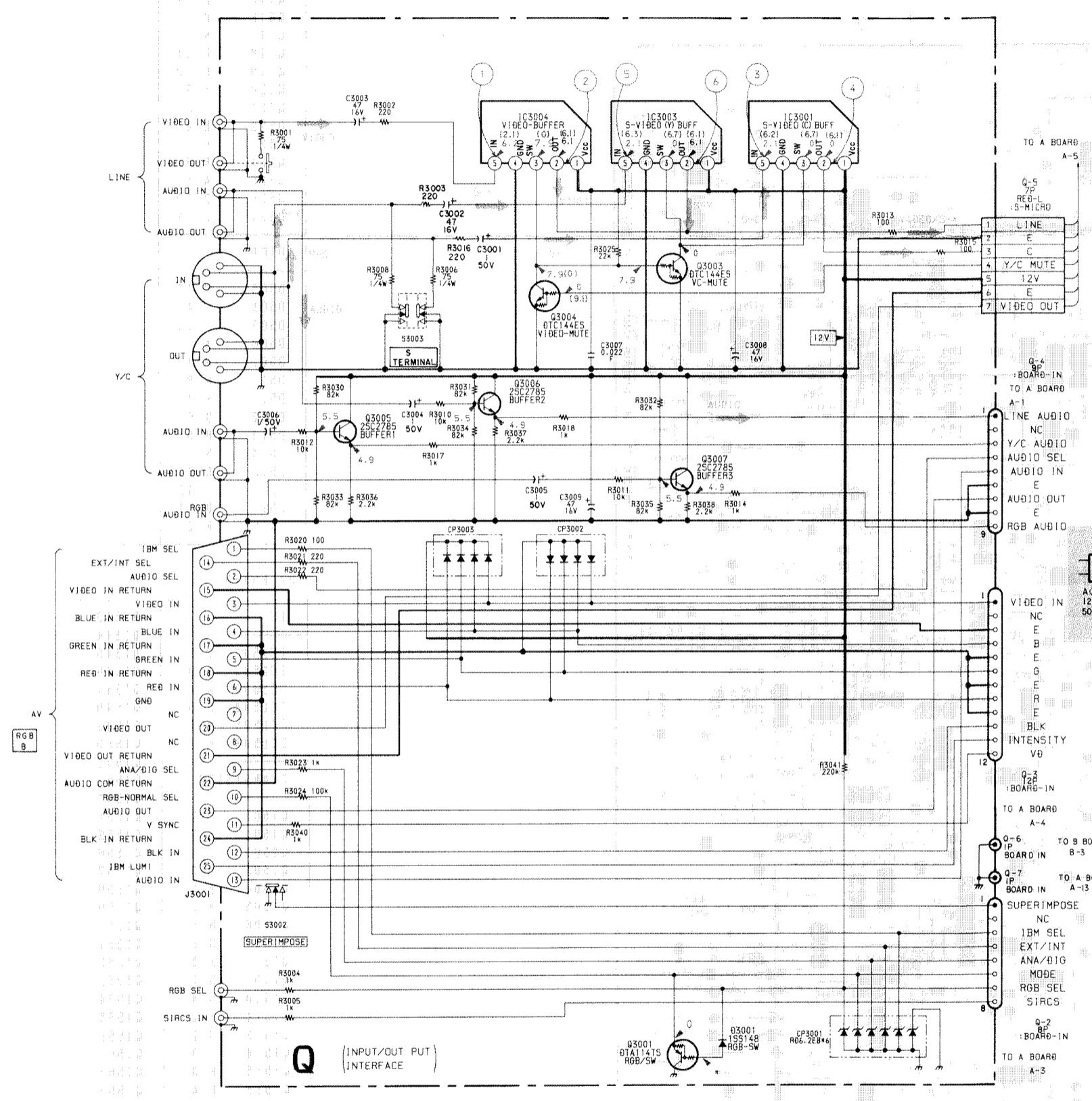
-D2 BOARD-



D1 BOARD			
IC	D519	F-4	
IC501	E-1	D-10	
IC502	C-8	N-6	
IC503	C-10	B-11	
	D524	C-11	
TRANSISTOR	D525	B-2	
	D526	K-13	
Q501	D-3	B-3	
Q502	B-8	D-3	
Q503	B-8	C-12	
Q504	N-2		
Q505	N-2	VARIABLE RESISTOR	
Q506	C-3		
Q507	H-11		
Q508	B-7	RV501	O-3
Q509	B-7	RV502	N-5
Q510	C-4	RV503	O-4
Q511	B-7	RV504	O-2
Q512	D-4		
Q513	H-7		
Q514	F-10		
Q515	E-11		
Q516	B-1		
Q517	B-1		
Q518	B-11		
Q519	D-10		
Q520	E-9		
Q521	C-3		
Q522	E-9		
Q523	B-5		
Q524	B-4		
Q525	A-5		
Q526	D-10		
Q527	D-11		
DIODE			
D505	H-10		
D506	C-4		
D507	H-10		
D508	A-7		
D509	N-13		
D510	C-8		
D511	F-11		
D512	B-6		
D513	H-5		
D514	N-5		
D515	G-4		
D516	L-13		
D517	D-11		
D518	K-2		

D2 BOARD					
IC	Q1543	O-5	D1503	G-3	
IC1501	Q1544	J-9	D1504	G-4	
IC1502	Q1545	O-5	D1505	G-3	
IC1503	Q1546	D-7	D1506	E-2	
IC1504	Q1547	N-5	D1507	B-6	
IC1505	Q1548	G-8	D1508	E-5	
IC1505	Q1549	J-10	D1509	L-3	
IC1506	Q1550	O-3	D1510	C-8	
	Q1551	J-9	D1511	K-5	
TRANSISTOR	Q1552	C-3	D1512	O-3	
Q1500	Q1553	B-3	D1513	C-11	
Q1501	Q1554	O-8	D1514	C-10	
Q1502	Q1555	L-1	D1515	J-9	
Q1503	Q1556	F-8	D1516	O-9	
Q1504	Q1557	D-7	D1517	L-8	
Q1505	Q1558	J-7	D1518	D-4	
Q1506	Q1559	F-6	D1519	D-3	
Q1507	Q1560	N-2	D1520	E-4	
Q1508	Q1561	H-2	D1521	I-8	
Q1509	Q1562	L-9	D1522	I-10	
Q1510	Q1563	K-9	D1523	H-10	
Q1511	Q1564	J-8	D1524	H-10	
Q1512	Q1565	J-8	D1525	G-10	
Q1513	Q1566	F-7	D1526	C-2	
Q1514	Q1567	B-11			
Q1515	Q1568	C-2			
Q1516	Q1569	D-7			
Q1517	F-4				
Q1518	F-4				
Q1519	G-3	Q1572	D-10		
Q1520	F-3	Q1573	D-10		
Q1521	G-4	Q1574	D-11		
Q1522	G-4	Q1575	L-8		
Q1523	N-3	Q1576	K-8	RV1500	I-10
Q1524	N-3	Q1577	H-8	RV1501	D-2
Q1525	N-3	Q1578	H-8	RV1502	E-3
Q1526	I-7	Q1579	H-8	RV1503	G-4
Q1527	N-2	Q1580	H-9	RV1504	G-11
Q1528	C-5	Q1581	H-10	RV1505	O-4
Q1529	N-2	Q1582	H-10	RV1507	M-11
Q1530	D-3	Q1583	H-9	RV1508	K-11
Q1531	J-8	Q1584	H-9	RV1509	K-11
Q1532	H-6	Q1585	H-8	RV1510	B-11
Q1533	C-4	Q1586	H-8	RV1511	D-11
Q1534	C-4	Q1587	I-9	RV1512	F-11
Q1535	N-5	Q1588	H-8	RV1513	C-11
Q1536	N-5	Q1589	B-11	RV1514	E-11
Q1537	N-4	Q1590	C-4	RV1515	B-11
Q1538	C-4	Q1591	C-8	RV1601	D-11
Q1539	K-5	Q1592	B-7	RV1602	E-11
Q1540	L-4	Q1593	B-7		
Q1541	E-7				
Q1542	I-9	DIODE			
		D1501	F-8		
		D1502	D-1		

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

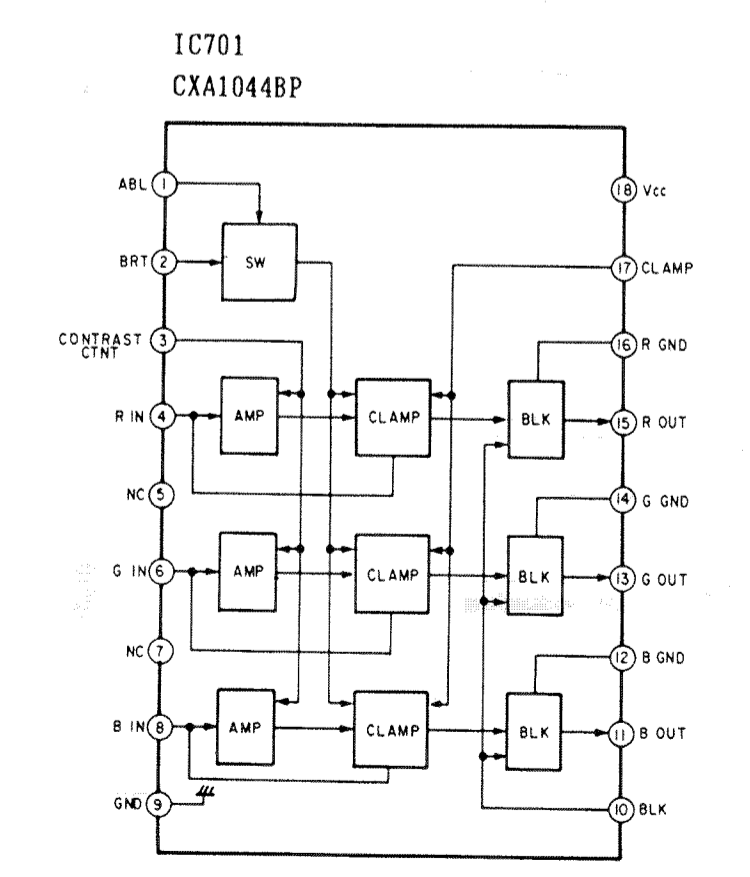


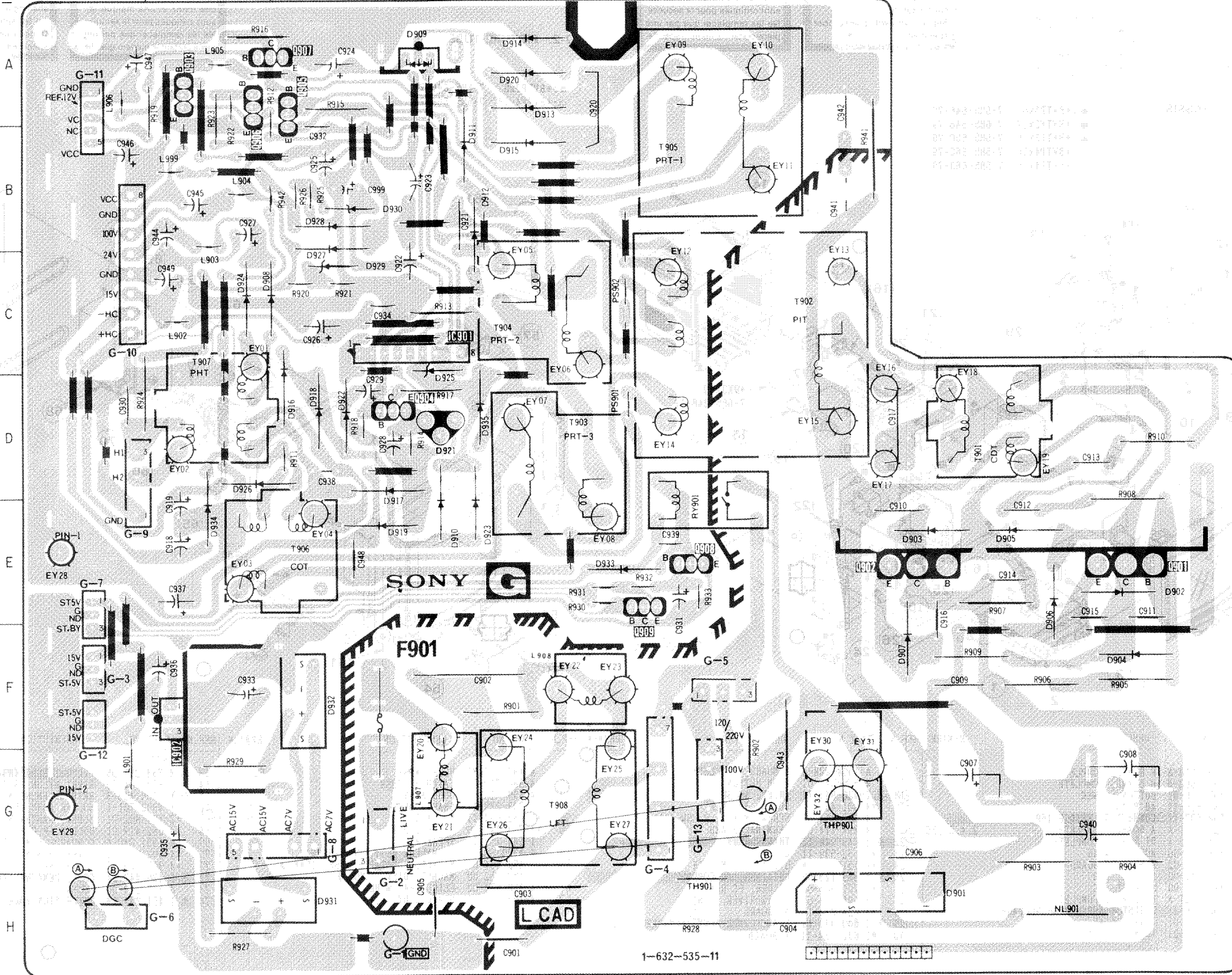
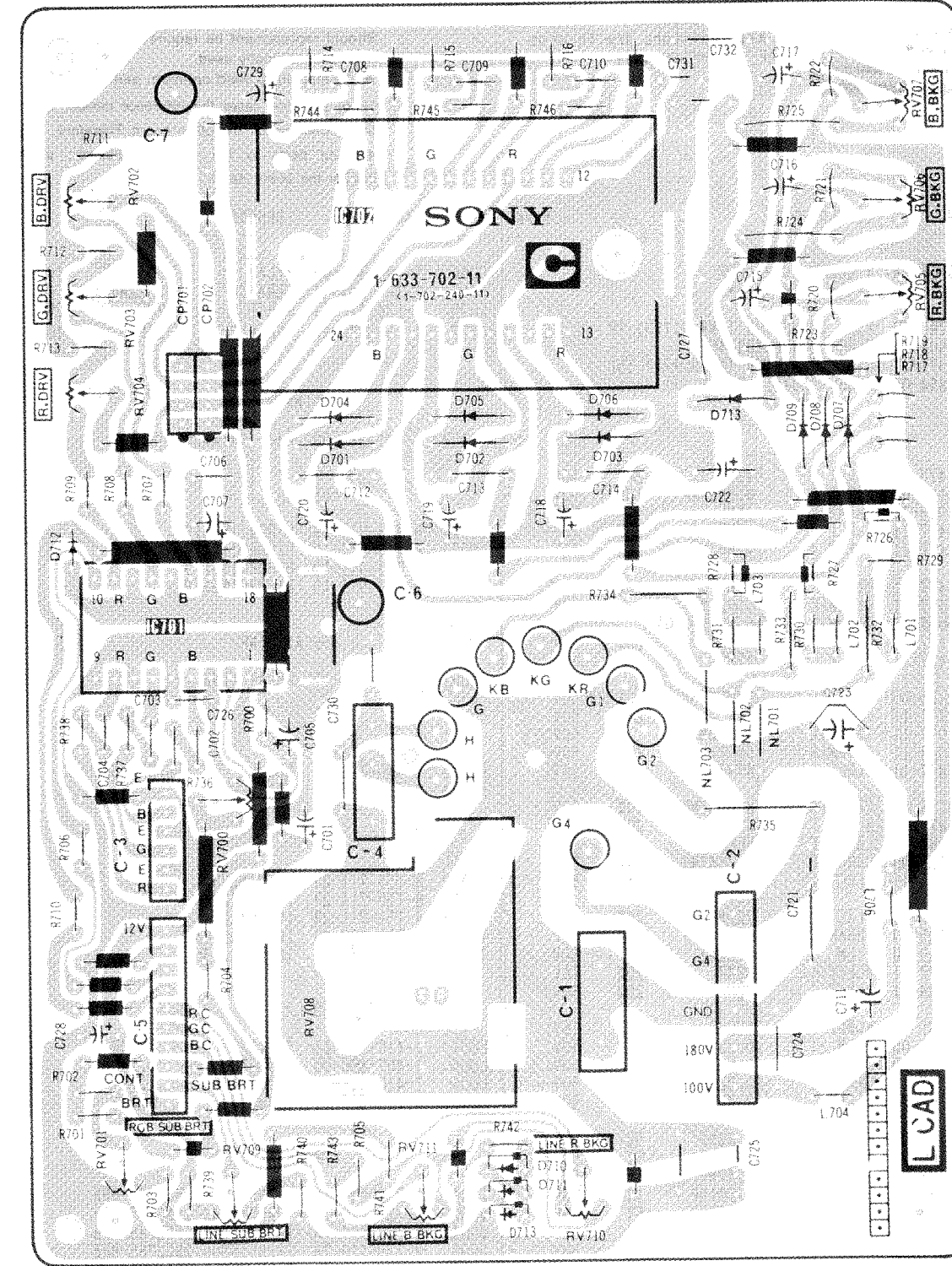
C BOARD

①	①	①
NTSC3.58 4.6Vp-p (H)	5-VVIDEO 5.0Vp-p (H)	DIGITAL 3.4Vp-p (H)
②	②	②
NTSC3.58 4.6Vp-p (H)	5-VVIDEO 5.0Vp-p (H)	DIGITAL 3.2Vp-p (H)
③	③	
NTSC3.58 4.6Vp-p (H)		
③	③	④
S-VVIDEO 5.0Vp-p (H)	DIGITAL 3.3Vp-p (H)	NTSC3.58 68.0Vp-p (H)
④	④	⑤
S-VVIDEO 72.0Vp-p (H)	DIGITAL 36.0Vp-p (H)	NTSC3.58 70.0Vp-p (H)
⑤	⑤	⑥
S-VVIDEO 72.0Vp-p (H)	DIGITAL 36.0Vp-p (H)	NTSC3.58 60.0Vp-p (H)
⑥	⑥	
S-VVIDEO 70.0Vp-p (H)	DIGITAL 34.0Vp-p (H)	

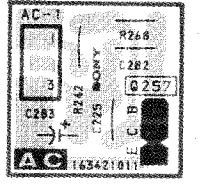
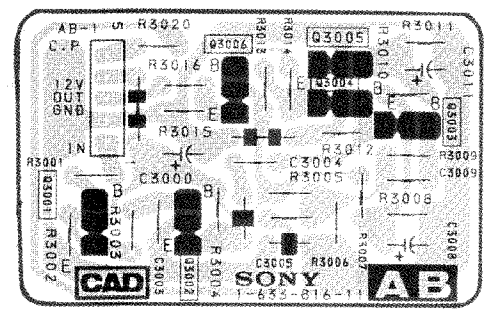
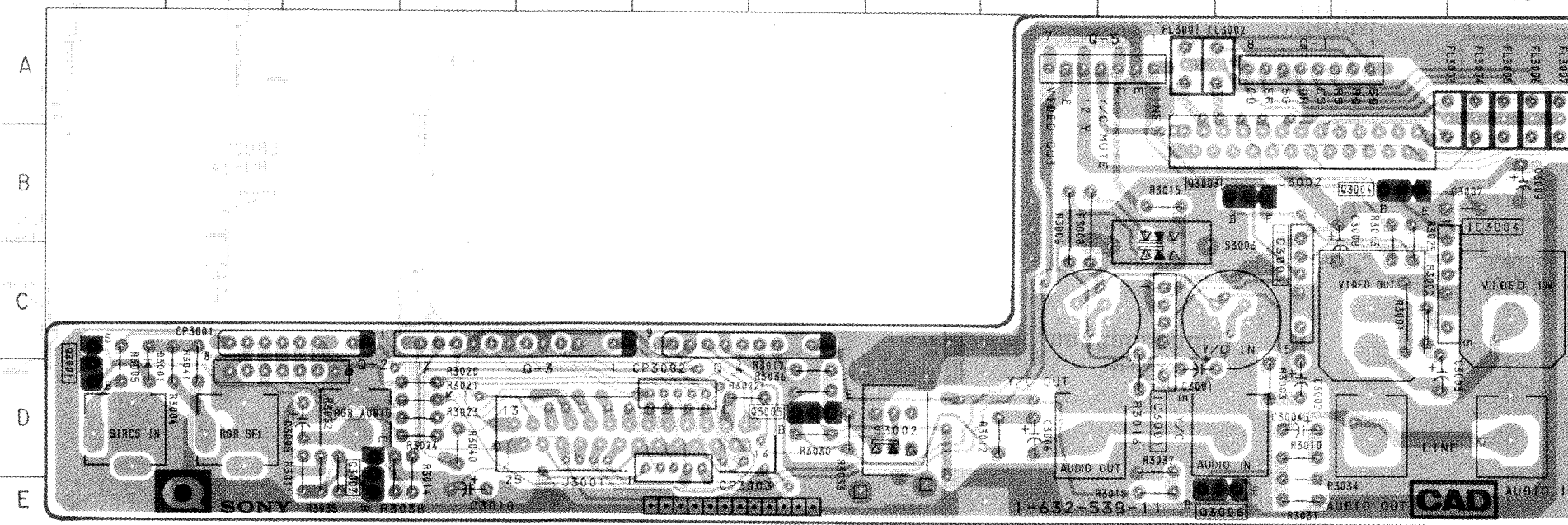
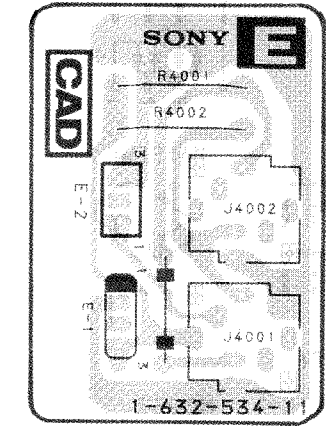
Q BOARD

①	②
NTSC3.58 0.8Vp-p (H)	NTSC3.58 0.8Vp-p (H)
③	④
S-VVIDEO 0.6Vp-p (V)	S-VVIDEO 0.6Vp-p (V)
⑤	⑥
S-VVIDEO 1.0Vp-p (V)	S-VVIDEO 1.0Vp-p (V)





IC	IC901 C-4
	IC902 F-2
TRANSISTOR	
Q901	E-9
Q902	E-8
Q903	A-2
Q904	D-3
Q905	A-3
Q906	A-2
Q907	A-3
Q908	E-6
Q909	E-6
DIODE	
D901	H-7
D902	E-9
D903	E-8
D904	F-9
D905	E-8
D906	E-9
D907	F-9
D908	C-3
D909	A-4
D910	E-4
D911	B-4
D912	B-4
D913	A-5
D914	A-5
D915	B-5
D916	C-3
D917	D-3
D918	D-3
D919	E-3
D920	A-5
D921	D-4
D922	D-3
D923	E-4
D924	C-2
D925	C-4
D926	D-2
D927	B-3
D928	B-3
D929	C-3
D930	B-3
D931	H-2
D932	F-3
D933	E-5
D934	E-2
D935	D-4



AB

(SYNC SIGNAL AMPL)

AC

(ACTIVE FILTER)

C

(VIDEO AMP)

E

(AUDIO OUT)

G

(POWER SUPPLY)

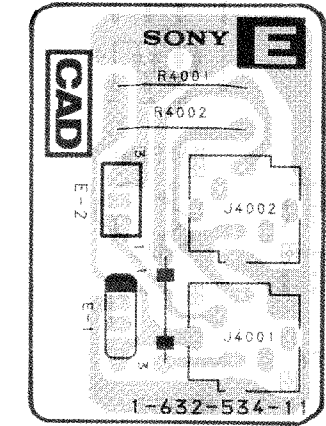
Q

(INPUT/OUTPUT INTERFACE)

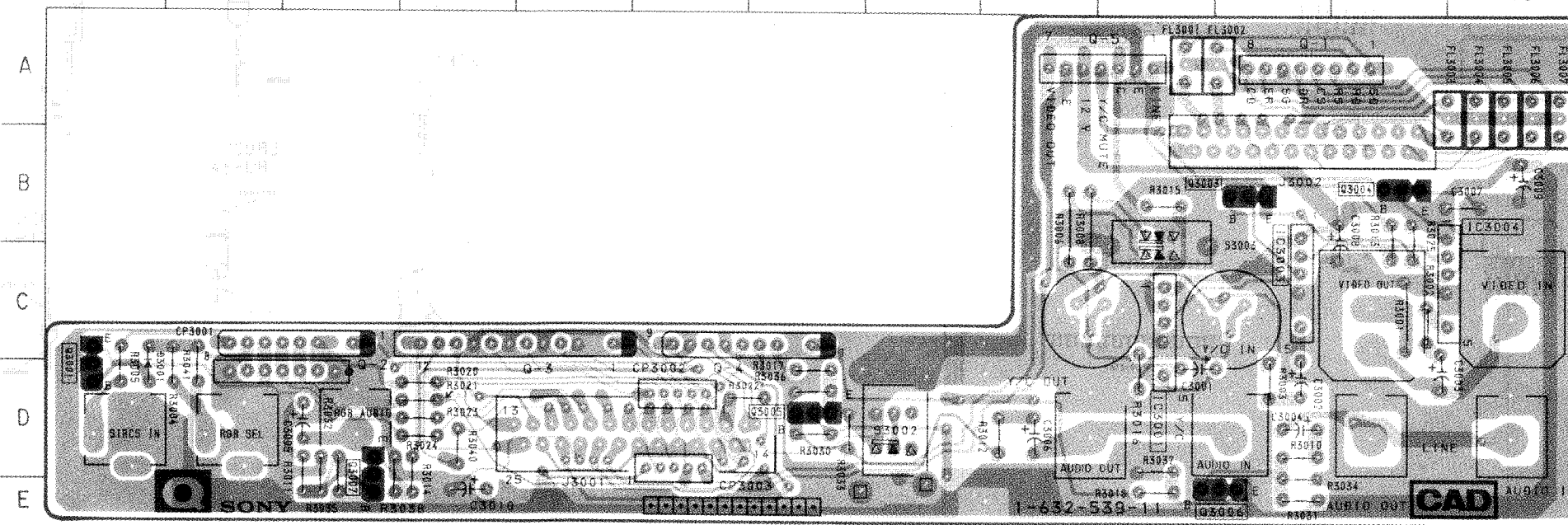
G BOARD

IC	IC901 C-4
	IC902 F-2
TRANSISTOR	
Q901	E-9
Q902	E-8
Q903	A-2
Q904	D-3
Q905	A-3
Q906	A-2
Q907	A-3
Q908	E-6
Q909	E-6
DIODE	
D901	H-7
D902	E-9
D903	E-8
D904	F-9
D905	E-8
D906	E-9
D907	F-9
D908	C-3
D909	A-4
D910	E-4
D911	B-4
D912	B-4
D913	A-5
D914	A-5
D915	B-5
D916	C-3
D917	D-3
D918	D-3
D919	E-3
D920	A-5
D921	D-4
D922	D-3
D923	E-4
D924	C-2
D925	C-4
D926	D-2
D927	B-3
D928	B-3
D929	C-3
D930	B-3
D931	H-2
D932	F-3
D933	E-5
D934	E-2
D935	D-4

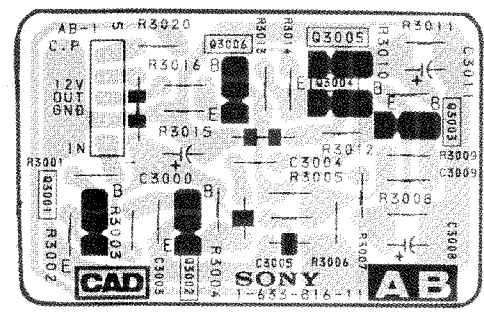
- E BOARD -



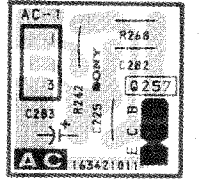
- Q BOARD -



- AB BOARD -



- AC BOARD -



Q BOARD

IC	IC3001 C-10
	IC3003 C-11
	IC3004 C-13
TRANSISTOR	
Q3001	D-1
Q3003	B-11
Q3004	B-12
Q3005	D-7
Q3006	E-11
Q3007	E-3
DIODE	
D3001	D-1



REF. NO.	PART NO.	DESCRIPTION	REMARK
Q017	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q018	8-729-900-89	TRANSISTOR DTC144BS	
Q020	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q021	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q022	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q023	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R001	1-249-405-11	CARBON 100 5%	1/4W
R003	1-249-417-11	CARBON 1K 5%	1/4W
R004	1-249-399-11	CARBON 33 5%	1/4W
R005	1-249-405-11	CARBON 100 5%	1/4W
R006	1-249-409-11	CARBON 220 5%	1/4W
R007	1-249-421-11	CARBON 2.2K 5%	1/4W
R008	1-249-421-11	CARBON 2.2K 5%	1/4W
R009	1-249-415-11	CARBON 680 5%	1/4W
R010	1-249-434-11	CARBON 27K 5%	1/4W
R012	1-249-415-11	CARBON 680 5%	1/4W
R013	1-249-431-11	CARBON 15K 5%	1/4W
R014	1-249-434-11	CARBON 27K 5%	1/4W
R016	1-249-419-11	CARBON 1.5K 5%	1/4W
R018	1-249-405-11	CARBON 100 5%	1/4W
R019	1-249-417-11	CARBON 1K 5%	1/4W
R020	1-249-431-11	CARBON 15K 5%	1/4W
R021	1-249-431-11	CARBON 15K 5%	1/4W
R022	1-249-435-11	CARBON 33K 5%	1/4W
R023	1-249-427-11	CARBON 6.8K 5%	1/4W
R024	1-249-430-11	CARBON 12K 5%	1/4W
R025	1-249-411-11	CARBON 330 5%	1/4W
R026	1-249-411-11	CARBON 330 5%	1/4W
R027	1-249-433-11	CARBON 22K 5%	1/4W
R028	1-249-435-11	CARBON 33K 5%	1/4W
R029	1-249-419-11	CARBON 1.5K 5%	1/4W
R030	1-249-411-11	CARBON 330 5%	1/4W
R031	1-249-415-11	CARBON 680 5%	1/4W
R032	1-249-411-11	CARBON 330 5%	1/4W
R033	1-249-417-11	CARBON 1K 5%	1/4W
R034	1-249-421-11	CARBON 2.2K 5%	1/4W
R035	1-249-429-11	CARBON 10K 5%	1/4W
R036	1-249-441-11	CARBON 100K 5%	1/4W
R037	1-249-411-11	CARBON 330 5%	1/4W
R038	1-249-417-11	CARBON 1K 5%	1/4W
R039	1-249-417-11	CARBON 1K 5%	1/4W
R040	1-249-416-11	CARBON 820 5%	1/4W
R041	1-249-415-11	CARBON .680 5%	1/4W
R042	1-249-405-11	CARBON 100 5%	1/4W
R043	1-249-435-11	CARBON 33K 5%	1/4W
R044	1-249-415-11	CARBON 680 5%	1/4W
R045	1-249-419-11	CARBON 1.5K 5%	1/4W
R046	1-249-409-11	CARBON 220 5%	1/4W
R047	1-249-405-11	CARBON 100 5%	1/4W
R052	1-249-417-11	CARBON 1K 5%	1/4W
R053	1-249-419-11	CARBON 1.5K 5%	1/4W
R054	1-247-842-11	CARBON 3K 5%	1/4W
R055	1-249-437-11	CARBON 47K 5%	1/4W
R058	1-249-429-11	CARBON 10K 5%	1/4W
R060	1-249-409-11	CARBON 220 5%	1/4W
R062	1-249-409-11	CARBON 220 5%	1/4W
R063	1-249-409-11	CARBON 220 5%	1/4W
R066	1-249-410-11	CARBON 270 5%	1/4W
R067	1-249-408-11	CARBON 180 5%	1/4W
R068	1-249-410-11	CARBON 270 5%	1/4W
R069	1-249-421-11	CARBON 2.2K 5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R070	1-249-425-11	CARBON 4.7K 5%	1/4W
R071	1-249-413-11	CARBON 470 5%	1/4W
R072	1-247-891-00	CARBON 330K 5%	1/4W
R073	1-249-417-11	CARBON 1K 5%	1/4W
R074	1-249-429-11	CARBON 10K 5%	1/4W
R075	1-215-455-00	METAL 27K 1%	1/6W
R076	1-249-409-11	CARBON 220 5%	1/4W
R077	1-249-421-11	CARBON 2.2K 5%	1/4W
R078	1-249-421-11	CARBON 2.2K 5%	1/4W
R079	1-249-417-11	CARBON 1K 5%	1/4W
R082	1-249-405-11	CARBON 100 5%	1/4W
R083	1-249-409-11	CARBON 220 5%	1/4W
R084	1-249-409-11	CARBON 220 5%	1/4W
R085	1-249-416-11	CARBON 820 5%	1/4W
R086	1-249-417-11	CARBON 1K 5%	1/4W
R087	1-249-417-11	CARBON 1K 5%	1/4W
R088	1-249-433-11	CARBON 22K 5%	1/4W
R090	1-249-425-11	CARBON 4.7K 5%	1/4W
R091	1-249-409-11	CARBON 220 5%	1/4W
R092	1-249-408-11	CARBON 180 5%	1/4W
R099	1-249-405-11	CARBON 100 5%	1/4W
<VARIABLE RESISTOR>			
RV001	1-228-996-00	RES, ADJ, CARBON 47K	
<CRYSTAL>			
X003	1-577-611-11	OSCILATOR, CERAMIC	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	

*1-632-539-11	Q BOARD	*****	
1-537-268-11	TERMINAL BOARD, INPUT/OUTPUT		
1-537-269-11	TERMINAL BOARD, INPUT/OUTPUT		
*1-564-522-11	PLUG, CONNECTOR 7P		
<CAPACITOR>			
C3001	1-126-160-11	ELECT 1MF 20%	50V
C3002	1-124-589-11	ELECT 47MF 20%	16V
C3003	1-124-589-11	ELECT 47MF 20%	16V
C3004	1-126-160-11	ELECT 1MF 20%	50V
C3005	1-126-160-11	ELECT 1MF 20%	50V
C3006	1-126-160-11	ELECT 1MF 20%	50V
C3007	1-164-097-11	CERAMIC 0.022MF	50V
C3008	1-124-589-11	ELECT 47MF 20%	16V
C3009	1-124-589-11	ELECT 47MF 20%	16V
<COMPOSITION CIRCUIT BLOCK>			
CP3002	1-232-347-00	COMPOSITION CIRCUIT BLOCK	
CP3003	1-232-348-00	COMPOSITION CIRCUIT BLOCK	
<DIODE>			
D3001	8-719-911-19	DIODE 1SS119	
<MODULE>			
IC3001	1-808-916-11	MODULE, BUFFER (BUF-1)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC3003	1-808-916-11	MODULE, BUFFER (BUF-1)		*1-564-513-11	PLUG, CONNECTOR 10P		
IC3004	1-808-916-11	MODULE, BUFFER (BUF-1)		*1-564-514-11	PLUG, CONNECTOR 11P		
				*1-564-516-11	PLUG, CONNECTOR 13P		
				*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P		
				4-382-854-01	SCREW (M3X8), P. SW (+)		
		<TRANSISTOR>			<CAPACITOR>		
Q3001	8-729-904-34	TRANSISTOR DTA114TS		C200	1-164-079-11	CERAMIC 330PF	10% 50V
Q3003	8-729-900-89	TRANSISTOR DTC144ES		C201	1-123-875-11	ELECT 10MF	20% 50V
Q3004	8-729-900-89	TRANSISTOR DTC144ES		C202	1-124-477-11	ELECT 47MF	20% 16V
Q3005	8-729-119-78	TRANSISTOR 2SC2785-HFE		C203	1-124-477-11	ELECT 47MF	20% 16V
Q3006	8-729-119-78	TRANSISTOR 2SC2785-HFE		C204	1-124-477-11	ELECT 47MF	20% 16V
Q3007	8-729-119-78	TRANSISTOR 2SC2785-HFE		C205	1-124-477-11	ELECT 47MF	20% 16V
		<RESISTOR>		C206	1-126-101-11	ELECT 100MF	20% 16V
R3001	1-247-104-00	CARBON 75 5% 1/4W		C207	1-164-097-11	CERAMIC 0.022MF	50V
R3002	1-249-409-11	CARBON 220 5% 1/4W		C208	1-164-087-11	CERAMIC 0.0015MF	10% 50V
R3003	1-249-409-11	CARBON 220 5% 1/4W		C209	1-124-464-11	ELECT 0.22MF	20% 50V
R3004	1-249-417-11	CARBON 1K 5% 1/4W		C210	1-123-875-11	ELECT 10MF	20% 50V
R3005	1-249-417-11	CARBON 1K 5% 1/4W		C211	1-124-360-00	ELECT 1000MF	20% 16V
R3006	1-247-104-00	CARBON 75 5% 1/4W		C212	1-123-875-11	ELECT 10MF	20% 50V
R3008	1-247-104-00	CARBON 75 5% 1/4W		C213	1-164-097-11	CERAMIC 0.022MF	50V
R3010	1-249-429-11	CARBON 10K 5% 1/4W		C214	1-106-383-00	MYLAR 0.047MF	10% 100V
R3011	1-249-429-11	CARBON 10K 5% 1/4W		C215	1-124-557-11	ELECT 1000MF	20% 25V
R3012	1-249-429-11	CARBON 10K 5% 1/4W		C216	1-126-101-11	ELECT 100MF	20% 16V
R3013	1-249-405-11	CARBON 100 5% 1/4W		C217	1-164-079-11	CERAMIC 330PF	10% 50V
R3014	1-249-417-11	CARBON 1K 5% 1/4W		C218	1-102-973-00	CERAMIC 100PF	5% 50V
R3015	1-249-405-11	CARBON 100 5% 1/4W		C219	1-126-101-11	ELECT 100MF	20% 16V
R3016	1-249-409-11	CARBON 220 5% 1/4W		C220	1-124-477-11	ELECT 47MF	20% 25V
R3017	1-249-417-11	CARBON 1K 5% 1/4W		C221	1-106-343-00	MYLAR 0.001MF	10% 100V
R3018	1-249-417-11	CARBON 1K 5% 1/4W		C222	1-126-101-11	ELECT 100MF	20% 16V
R3020	1-249-405-11	CARBON 100 5% 1/4W		C223	1-124-477-11	ELECT 47MF	20% 16V
R3021	1-249-409-11	CARBON 220 5% 1/4W		C224	1-102-971-00	CERAMIC 82PF	5% 50V
R3022	1-249-409-11	CARBON 220 5% 1/4W		C226	1-124-499-11	ELECT 1MF	20% 50V
R3023	1-249-417-11	CARBON 1K 5% 1/4W		C227	1-106-343-00	MYLAR 0.001MF	10% 100V
R3024	1-249-441-11	CARBON 100K 5% 1/4W		C228	1-164-097-11	CERAMIC 0.022MF	50V
R3025	1-249-433-11	CARBON 22K 5% 1/4W		C229	1-124-477-11	ELECT 47MF	20% 16V
R3030	1-249-440-11	CARBON 82K 5% 1/4W		C230	1-124-499-11	ELECT 1MF	20% 50V
R3031	1-249-440-11	CARBON 82K 5% 1/4W		C231	1-164-097-11	CERAMIC 0.022MF	50V
R3032	1-249-440-11	CARBON 82K 5% 1/4W		C232	1-124-360-00	ELECT 1000MF	20% 16V
R3033	1-249-440-11	CARBON 82K 5% 1/4W		C233	1-124-499-11	ELECT 1MF	20% 50V
R3034	1-249-440-11	CARBON 82K 5% 1/4W		C234	1-124-477-11	ELECT 47MF	20% 16V
R3035	1-249-440-11	CARBON 82K 5% 1/4W		C235	1-102-971-00	CERAMIC 82PF	5% 50V
R3036	1-249-421-11	CARBON 2.2K 5% 1/4W		C236	1-124-902-00	ELECT 0.47MF	20% 50V
R3037	1-249-421-11	CARBON 2.2K 5% 1/4W		C237	1-164-027-11	CERAMIC 22PF	5% 50V
R3038	1-249-421-11	CARBON 2.2K 5% 1/4W		C238	1-124-477-11	ELECT 47MF	20% 16V
R3040	1-249-417-11	CARBON 1K 5% 1/4W		C239	1-106-351-00	MYLAR 0.0022MF	10% 100V
R3041	1-247-887-00	CARBON 220K 5% 1/4W		C240	1-124-927-11	ELECT 4.7MF	20% 50V
		<SWITCH>		C241	1-130-479-00	MYLAR 0.0047MF	5% 50V
S3002	1-570-257-11	SWITCH, PUSH (1 KEY)		C242	1-164-097-11	CERAMIC 0.022MF	50V
S3003	1-571-640-21	SWITCH, SLIDE		C243	1-136-165-00	FILM 0.1MF	5% 50V
		*****		C244	1-124-925-11	ELECT 2.2MF	20% 50V
				C245	1-124-902-00	ELECT 0.47MF	20% 50V
*A-1296-651-A	A BOARD, COMPLETE	*****		C246	1-124-477-11	ELECT 47MF	20% 16V
*1-506-517-11	PLUG, CONNECTOR (PC BOARD) 5P			C247	1-126-101-11	ELECT 100MF	20% 16V
*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			C248	1-123-875-11	ELECT 10MF	20% 50V
*1-564-506-11	PLUG, CONNECTOR 3P			C249	1-126-157-11	ELECT 10MF	20% 16V
*1-564-509-11	PLUG, CONNECTOR 6P			C250	1-124-902-00	ELECT 0.47MF	20% 50V
*1-564-510-11	PLUG, CONNECTOR 7P			C251	1-164-097-11	CERAMIC 0.022MF	50V
*1-564-511-11	PLUG, CONNECTOR 8P			C252	1-123-875-11	ELECT 10MF	20% 50V
*1-564-512-11	PLUG, CONNECTOR 9P			C253	1-124-902-00	ELECT 0.47MF	20% 50V
				C254	1-106-367-00	MYLAR 0.01MF	10% 100V
				C255	1-164-083-11	CERAMIC 680PF	10% 50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C256	1-101-888-00	CERAMIC	68PF	5%	50V	1C205	8-759-040-53 IC MC14053BCP
C257	1-124-477-11	ELECT	47MF	20%	16V	1C206	8-759-420-04 IC AN5265
C258	1-124-791-11	ELECT	1MF	20%	50V	1C207	1-808-917-11 MODULE, CGA (CGA-1A)
C259	1-136-153-00	MYLAR	0.01MF	10%	50V	1C208	8-759-982-21 IC RC78L05A
C260	1-136-161-00	FILM	0.047MF	5%	50V	1C209	8-759-800-81 IC LA7016
C261	1-124-477-11	ELECT	47MF	20%	16V	1C210	8-759-040-53 IC MC14053BCP
C262	1-124-499-11	ELECT	1MF	20%	50V	1C211	8-759-902-21 IC SN74LS221N
C263	1-136-155-00	FILM	0.015MF	5%	50V	1C212	8-759-634-10 IC M52001SP
C264	1-124-499-11	ELECT	1MF	20%	50V	1C213	8-759-040-53 IC MC14053BCP
C265	1-124-499-11	ELECT	1MF	20%	50V	1C214	8-759-420-58 IC AN5860
C266	1-164-097-11	CERAMIC	0.022MF		50V	1C215	8-759-902-21 IC SN74LS221N
C267	1-124-120-11	ELECT	220MF	20%	16V	1C218	8-759-982-21 IC RC78L05A
C272	1-164-079-11	CERAMIC	330PF	10%	50V	1C220	8-759-146-55 IC UPC2412HF
C273	1-164-085-11	CERAMIC	0.001MF	10%	50V		
C274	1-124-463-00	ELECT	0.1MF	20%	50V		
C275	1-130-728-00	FILM	0.0022MF	5%	50V		<COIL>
C276	1-124-477-11	ELECT	47MF	20%	16V	L201	1-410-494-11 INDUCTOR 1MH
C278	1-164-077-11	CERAMIC	220PF	10%	50V	L202	1-408-414-00 INDUCTOR 27UH
C279	1-124-463-00	ELECT	0.1MF	20%	50V	L203	1-410-510-11 INDUCTOR 12UH
C280	1-126-101-11	ELECT	100MF	20%	16V	L204	1-410-507-11 INDUCTOR 6.8UH
C281	1-124-478-11	ELECT	100MF	20%	25V		
C283	1-124-120-11	ELECT	220MF	20%	16V		
C284	1-164-076-11	CERAMIC	180PF	10%	50V		<TRANSISTOR>
C286	1-124-925-11	ELECT	2.2MF	20%	50V	Q200	8-729-119-78 TRANSISTOR 2SC2785-HFE
C289	1-164-027-11	CERAMIC	22PF	5%	50V	Q201	8-729-119-78 TRANSISTOR 2SC2785-HFE
C290	1-126-101-11	ELECT	100MF	20%	16V	Q202	8-729-119-78 TRANSISTOR 2SC2785-HFE
C291	1-124-477-11	ELECT	47MF	20%	16V	Q203	8-729-119-78 TRANSISTOR 2SC2785-HFE
C292	1-124-791-11	ELECT	1MF	20%	50V	Q204	8-729-119-78 TRANSISTOR 2SC2785-HFE
		<DIODE>				Q205	8-729-119-78 TRANSISTOR 2SC2785-HFE
D200	8-719-936-56	DIODE DAN209S				Q206	8-729-119-78 TRANSISTOR 2SC2785-HFE
D202	8-719-110-36	DIODE RD13ES-B2				Q207	8-729-119-78 TRANSISTOR 2SC2785-HFE
D203	8-719-110-36	DIODE RD13ES-B2				Q208	8-729-119-78 TRANSISTOR 2SC2785-HFE
D204	8-719-911-19	DIODE ISS119				Q209	8-729-900-36 TRANSISTOR DTC124ES
D205	8-719-911-19	DIODE ISS119				Q210	8-729-900-89 TRANSISTOR DTC144ES
D206	8-719-911-19	DIODE ISS119				Q211	8-729-119-76 TRANSISTOR 2SA1175-HFE
D207	8-719-110-36	DIODE RD13ES-B2				Q212	8-729-119-78 TRANSISTOR 2SC2785-HFE
D208	8-719-109-69	DIODE RD3.6ES-B2				Q213	8-729-119-76 TRANSISTOR 2SA1175-HFE
D209	8-719-911-19	DIODE ISS119				Q214	8-729-119-78 TRANSISTOR 2SC2785-HFE
D210	8-719-911-19	DIODE ISS119				Q215	8-729-140-97 TRANSISTOR 2SB734-34
D211	8-719-936-56	DIODE DAN209S				Q216	8-729-119-78 TRANSISTOR 2SC2785-HFE
D212	8-719-911-19	DIODE ISS119				Q217	8-729-119-78 TRANSISTOR 2SC2785-HFE
D213	8-719-911-19	DIODE ISS119				Q218	8-729-920-98 TRANSISTOR 2SD1761-EF
D214	8-719-911-19	DIODE ISS119				Q219	8-729-119-78 TRANSISTOR 2SC2785-HFE
D215	8-719-911-19	DIODE ISS119				Q220	8-729-119-78 TRANSISTOR 2SC2785-HFE
D216	8-719-911-19	DIODE ISS119				Q221	8-729-119-78 TRANSISTOR 2SC2785-HFE
D217	8-719-911-19	DIODE ISS119				Q222	8-729-119-78 TRANSISTOR 2SC2785-HFE
D218	8-719-911-19	DIODE ISS119				Q223	8-729-119-78 TRANSISTOR 2SC2785-HFE
D219	8-719-911-19	DIODE ISS119				Q224	8-729-119-78 TRANSISTOR 2SC2785-HFE
D220	8-719-911-19	DIODE ISS119				Q225	8-729-115-30 TRANSISTOR 2SK105A-30
D221	8-719-911-19	DIODE ISS119				Q226	8-729-900-89 TRANSISTOR DTC144ES
D222	8-719-911-19	DIODE ISS119				Q227	8-729-119-78 TRANSISTOR 2SC2785-HFE
D223	8-719-911-19	DIODE ISS119				Q228	8-729-119-78 TRANSISTOR 2SC2785-HFE
D224	8-719-911-19	DIODE ISS119				Q229	8-729-119-78 TRANSISTOR 2SC2785-HFE
D225	8-719-911-19	DIODE ISS119				Q230	8-729-119-78 TRANSISTOR 2SC2785-HFE
D298	8-719-911-19	DIODE ISS119				Q231	8-729-119-78 TRANSISTOR 2SC2785-HFE
		<IC>				Q232	8-729-119-78 TRANSISTOR 2SC2785-HFE
1C201	1-808-916-11	MODULE, BUFFER (BUF-1)				Q233	8-729-900-89 TRANSISTOR DTC144ES
1C202	1-808-916-11	MODULE, BUFFER (BUF-1)				Q234	8-729-900-89 TRANSISTOR DTC144ES
1C203	1-808-916-11	MODULE, BUFFER (BUF-1)				Q235	8-729-119-78 TRANSISTOR 2SC2785-HFE
1C204	1-808-916-11	MODULE, BUFFER (BUF-1)				Q236	8-729-119-78 TRANSISTOR 2SC2785-HFE
						Q237	8-729-119-78 TRANSISTOR 2SC2785-HFE
						Q238	8-729-900-89 TRANSISTOR DTC144ES
						Q239	8-729-900-89 TRANSISTOR DTC144ES

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q240	8-729-119-78	TRANSISTOR 2SC2785-HFE		R230	1-249-417-11	CARBON 1K 5% 1/4W	
Q241	8-729-900-89	TRANSISTOR DTC144ES		R231	1-249-417-11	CARBON 1K 5% 1/4W	
Q242	8-729-900-89	TRANSISTOR DTC144ES		R232	1-249-401-11	CARBON 47 5% 1/4W	
Q243	8-729-140-97	TRANSISTOR 2SB734-34		R233	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q244	8-729-119-78	TRANSISTOR 2SC2785-HFE		R234	1-249-401-11	CARBON 47 5% 1/4W	
Q245	8-729-119-78	TRANSISTOR 2SC2785-HFE		R235	1-249-401-11	CARBON 47 5% 1/4W	
Q246	8-729-900-89	TRANSISTOR DTC144ES		R236	1-249-437-11	CARBON 47K 5% 1/4W	
Q247	8-729-900-89	TRANSISTOR DTC144ES		R237	1-247-713-11	CARBON 1K 5% 1/4W	
Q248	8-729-119-76	TRANSISTOR 2SA1175-HFE		R238	1-249-419-11	CARBON 1.5K 5% 1/4W	
Q249	8-729-119-78	TRANSISTOR 2SC2785-HFE		R239	1-247-895-00	CARBON 470K 5% 1/4W	
Q250	8-729-119-76	TRANSISTOR 2SA1175-HFE		R240	1-249-433-11	CARBON 22K 5% 1/4W	
Q251	8-729-119-78	TRANSISTOR 2SC2785-HFE		R241	1-249-429-11	CARBON 10K 5% 1/4W	
Q252	8-729-119-78	TRANSISTOR 2SC2785-HFE		R243	1-249-405-11	CARBON 100 5% 1/4W	
Q253	8-729-119-78	TRANSISTOR 2SC2785-HFE		R244	1-249-415-11	CARBON 680 5% 1/4W	
Q254	8-729-140-97	TRANSISTOR 2SB734-34		R245	1-249-429-11	CARBON 10K 5% 1/4W	
Q255	8-729-900-89	TRANSISTOR DTC144ES		R246	1-247-804-11	CARBON 75 5% 1/4W	
Q256	8-729-119-78	TRANSISTOR 2SC2785-HFE		R247	1-249-389-11	CARBON 4.7 5% 1/4W	
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE		R248	1-249-397-11	CARBON 22 5% 1/4W	
Q262	8-729-900-89	TRANSISTOR DTC144ES		R249	1-249-411-11	CARBON 330 5% 1/4W	
Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE		R250	1-249-417-11	CARBON 1K 5% 1/4W	
Q264	8-729-119-78	TRANSISTOR 2SC2785-HFE		R251	1-249-437-11	CARBON 47K 5% 1/4W	
Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE		R252	1-249-429-11	CARBON 10K 5% 1/4W	
Q268	8-729-119-76	TRANSISTOR 2SA1175-HFE		R253	1-249-441-11	CARBON 100K 5% 1/4W	
Q269	8-729-119-76	TRANSISTOR 2SA1175-HFE		R254	1-249-417-11	CARBON 1K 5% 1/4W	
Q270	8-729-900-89	TRANSISTOR DTC144ES		R255	1-247-713-11	CARBON 1K 5% 1/4W	
Q271	8-729-900-89	TRANSISTOR DTC144ES		R256	1-249-417-11	CARBON 1K 5% 1/4W	
Q272	8-729-900-89	TRANSISTOR DTC144ES		R257	1-249-417-11	CARBON 1K 5% 1/4W	
Q273	8-729-900-89	TRANSISTOR DTC144ES		R258	1-249-433-11	CARBON 22K 5% 1/4W	
Q274	8-729-119-78	TRANSISTOR 2SC2785-HFE		R259	1-249-437-11	CARBON 47K 5% 1/4W	
Q275	8-729-900-89	TRANSISTOR DTC144ES		R260	1-249-417-11	CARBON 1K 5% 1/4W	
Q276	8-729-900-89	TRANSISTOR DTC144ES		R261	1-249-405-11	CARBON 100 5% 1/4W	
		(RESISTOR)		R262	1-249-431-11	CARBON 15K 5% 1/4W	
R200	1-247-704-11	CARBON 220 5% 1/4W		R263	1-249-429-11	CARBON 10K 5% 1/4W	
R201	1-249-417-11	CARBON 1K 5% 1/4W		R264	1-249-425-11	CARBON 4.7K 5% 1/4W	
R202	1-249-417-11	CARBON 1K 5% 1/4W		R265	1-249-426-11	CARBON 5.6K 5% 1/4W	
R203	1-247-895-00	CARBON 470K 5% 1/4W		R266	1-247-717-11	CARBON 2.2K 5% 1/4W	
R204	1-249-425-11	CARBON 4.7K 5% 1/4W		R267	1-247-700-11	CARBON 100 5% 1/4W	
R205	1-249-415-11	CARBON 680 5% 1/4W		R269	1-249-405-11	CARBON 100 5% 1/4W	
R206	1-249-382-11	CARBON 1.2 5% 1/4W		R270	1-249-437-11	CARBON 47K 5% 1/4W	
R207	1-247-725-11	CARBON 10K 5% 1/4W		R271	1-249-405-11	CARBON 100 5% 1/4W	
R208	1-249-441-11	CARBON 100K 5% 1/4W		R272	1-249-425-11	CARBON 4.7K 5% 1/4W	
R209	1-249-441-11	CARBON 100K 5% 1/4W		R273	1-249-401-11	CARBON 47 5% 1/4W	
R210	1-249-401-11	CARBON 47 5% 1/4W		R274	1-249-401-11	CARBON 47 5% 1/4W	
R211	1-247-804-11	CARBON 75 5% 1/4W		R275	1-249-401-11	CARBON 47 5% 1/4W	
R212	1-247-804-11	CARBON 75 5% 1/4W		R276	1-249-437-11	CARBON 47K 5% 1/4W	
R213	1-247-804-11	CARBON 75 5% 1/4W		R277	1-247-713-11	CARBON 1K 5% 1/4W	
R214	1-247-804-11	CARBON 75 5% 1/4W		R278	1-247-700-11	CARBON 100 5% 1/4W	
R215	1-247-804-11	CARBON 75 5% 1/4W		R279	1-247-713-11	CARBON 1K 5% 1/4W	
R216	1-249-421-11	CARBON 2.2K 5% 1/4W		R280	1-249-417-11	CARBON 1K 5% 1/4W	
R217	1-249-417-11	CARBON 1K 5% 1/4W		R281	1-249-405-11	CARBON 100 5% 1/4W	
R218	1-247-717-11	CARBON 2.2K 5% 1/4W		R282	1-247-700-11	CARBON 100 5% 1/4W	
R219	1-247-717-11	CARBON 2.2K 5% 1/4W		R283	1-249-405-11	CARBON 100 5% 1/4W	
R220	1-247-717-11	CARBON 2.2K 5% 1/4W		R284	1-249-419-11	CARBON 1.5K 5% 1/4W	
R221	1-247-717-11	CARBON 2.2K 5% 1/4W		R285	1-249-429-11	CARBON 10K 5% 1/4W	
R222	1-249-421-11	CARBON 2.2K 5% 1/4W		R286	1-247-713-11	CARBON 1K 5% 1/4W	
R223	1-249-437-11	CARBON 47K 5% 1/4W		R287	1-249-411-11	CARBON 330 5% 1/4W	
R224	1-249-421-11	CARBON 2.2K 5% 1/4W		R288	1-249-411-11	CARBON 330 5% 1/4W	
R225	1-249-417-11	CARBON 1K 5% 1/4W		R289	1-249-416-11	CARBON 820 5% 1/4W	
R226	1-249-401-11	CARBON 47 5% 1/4W		R290	1-249-429-11	CARBON 10K 5% 1/4W	
R227	1-249-401-11	CARBON 47 5% 1/4W		R291	1-249-469-11	CARBON 100K 5% 1/4W	
R228	1-249-417-11	CARBON 1K 5% 1/4W		R292	1-249-429-11	CARBON 10K 5% 1/4W	
R229	1-249-417-11	CARBON 1K 5% 1/4W		R293	1-249-425-11	CARBON 4.7K 5% 1/4W	
				R294	1-249-433-11	CARBON 22K 5% 1/4W	

A AB

REF. NO.	PART NO.	DESCRIPTION	REMARK
R295	1-215-435-00	METAL 3.9K 1% 1/6W	
R296	1-215-453-00	METAL 22K 1% 1/6W	
R297	1-247-704-11	CARBON 220 5% 1/4W	
R298	1-249-433-11	CARBON 22K 5% 1/4W	
R299	1-249-417-11	CARBON 1K 5% 1/4W	
R300	1-249-409-11	CARBON 220 5% 1/4W	
R301	1-249-429-11	CARBON 10K 5% 1/4W	
R302	1-249-417-11	CARBON 1K 5% 1/4W	
R303	1-249-434 11	CARBON 27K 5% 1/4W	
R304	1-249-417 11	CARBON 1K 5% 1/4W	
R305	1-249-405-11	CARBON 100 5% 1/4W	
R306	1-247-713 11	CARBON 1K 5% 1/4W	
R307	1-247-704-11	CARBON 220 5% 1/4W	
R308	1-249-425-11	CARBON 4.7K 5% 1/4W	
R309	1-249-409-11	CARBON 220 5% 1/4W	
R310	1-249-441-11	CARBON 100K 5% 1/4W	
R311	1-249-409-11	CARBON 220 5% 1/4W	
R312	1-249-423-11	CARBON 3.3K 5% 1/4W	
R313	1-247-700-11	CARBON 100 5% 1/4W	
R314	1-249-409-11	CARBON 220 5% 1/4W	
R315	1-249-411-11	CARBON 330 5% 1/4W	
R316	1-249-417-11	CARBON 1K 5% 1/4W	
R317	1-249-405-11	CARBON 100 5% 1/4W	
R318	1-249-409-11	CARBON 220 5% 1/4W	
R319	1-249-425-11	CARBON 4.7K 5% 1/4W	
R320	1-249-429-11	CARBON 10K 5% 1/4W	
R321	1-249-429-11	CARBON 10K 5% 1/4W	
R322	1-247-704-11	CARBON 220 5% 1/4W	
R323	1-249-437-11	CARBON 47K 5% 1/4W	
R324	1-249-409-11	CARBON 220 5% 1/4W	
R325	1-216-421-11	METAL OXIDE 12 5% 1W F	
R326	1-249-429-11	CARBON 10K 5% 1/4W	
R327	1-249-399-11	CARBON 33 5% 1/4W	
R328	1-249-409-11	CARBON 220 5% 1/4W	
R329	1-215 431 00	METAL 2.7K 1% 1/6W	
R330	1-215 455-00	METAL 27K 1% 1/6W	
R331	1-249-419-11	CARBON 1.5K 5% 1/4W	
R332	1-249-437-11	CARBON 47K 5% 1/4W	
R333	1-249-429-11	CARBON 10K 5% 1/4W	
R334	1-249-419-11	CARBON 1.5K 5% 1/4W	
R335	1-249-403-11	CARBON 68 5% 1/4W	
R336	1-249-465-11	CARBON 47K 5% 1/4W	
R337	1-215-906-11	METAL OXIDE 15 5% 3W F	
R338	1-249-423-11	CARBON 3.3K 5% 1/4W	
R339	1-249-441-11	CARBON 100K 5% 1/4W	
R340	1-247-714-11	CARBON 1.2K 5% 1/4W F	
R341	1-249-419-11	CARBON 1.5K 5% 1/4W	
R342	1-247-725-11	CARBON 10K 5% 1/4W	
R343	1-249-421-11	CARBON 2.2K 5% 1/4W	
R344	1-249-435-11	CARBON 33K 5% 1/4W	
R345	1-247-713-11	CARBON 1K 5% 1/4W	
R346	1-249-465-11	CARBON 47K 5% 1/4W	
R347	1-249-427-11	CARBON 6.8K 5% 1/4W	
R348	1-247-700-11	CARBON 100 5% 1/4W	
R349	1-247-700-11	CARBON 100 5% 1/4W	
R350	1-247-700-11	CARBON 100 5% 1/4W	
R351	1-215-469-00	METAL 100K 1% 1/6W	
R352	1-247-883-00	CARBON 150K 5% 1/4W	
R353	1-247-883-00	CARBON 150K 5% 1/4W	
R354	1-249-419-11	CARBON 1.5K 5% 1/4W	
R355	1-247-704-11	CARBON 220 5% 1/4W	
R356	1-247-704-11	CARBON 220 5% 1/4W	
R357	1-249-419-11	CARBON 1.5K 5% 1/4W	
R358	1-249-409-11	CARBON 220 5% 1/4W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R359	1-249-467-11	CARBON 68K 5% 1/4W	
R360	1-249-437-11	CARBON 47K 5% 1/4W	
R361	1-216-373-11	METAL OXIDE 2.2 5% 2W F	
R362	1-249-401-11	CARBON 47 5% 1/4W	
R363	1-249-401-11	CARBON 47 5% 1/4W	
R364	1-249-401-11	CARBON 47 5% 1/4W	
R365	1-249-419-11	CARBON 1.5K 5% 1/4W	
R366	1-215-421-00	METAL 1K 1% 1/6W	
R367	1-249-417-11	CARBON 1K 5% 1/4W	
R368	1-249-405-11	CARBON 100 5% 1/4W	
R369	1-249-436-11	CARBON 39K 5% 1/4W	
R370	1-249-433-11	CARBON 22K 5% 1/4W	
R371	1-249-414-11	CARBON 560 5% 1/4W	
R372	1-249-433-11	CARBON 22K 5% 1/4W	
R373	1-249-433-11	CARBON 22K 5% 1/4W	
R374	1-249-409-11	CARBON 220 5% 1/4W	
R375	1-247-704-11	CARBON 220 5% 1/4W	
R376	1-249-433-11	CARBON 22K 5% 1/4W	
R377	1-249-429-11	CARBON 10K 5% 1/4W	
R378	1-249-429-11	CARBON 10K 5% 1/4W	
R379	1-249-433-11	CARBON 22K 5% 1/4W	
R380	1-247-899-11	CARBON 680K 5% 1/4W	
R381	1-249-437-11	CARBON 47K 5% 1/4W	
R382	1-249-429-11	CARBON 10K 5% 1/4W	
R383	1-249-425-11	CARBON 4.7K 5% 1/4W	
R384	1-249-433-11	CARBON 22K 5% 1/4W	
R385	1-249-433-11	CARBON 22K 5% 1/4W	
R386	1-249-421-11	CARBON 2.2K 5% 1/4W	
R387	1-249-441-11	CARBON 100K 5% 1/4W	
R388	1-249-425-11	CARBON 4.7K 5% 1/4W	
R389	1-249-409-11	CARBON 220 5% 1/4W	
R391	1-249-417-11	CARBON 1K 5% 1/4W	
R392	1-247-722-11	CARBON 5.6K 5% 1/4W	
R393	1-247-726-11	CARBON 33K 5% 1/4W	
R394	1-249-465-11	CARBON 47K 5% 1/4W	
R395	1-249-441-11	CARBON 100K 5% 1/4W	
R396	1-247-700-11	CARBON 100 5% 1/4W	
R397	1-247-700-11	CARBON 100 5% 1/4W	
R398	1-249-425-11	CARBON 4.7K 5% 1/4W	
R399	1-247-700-11	CARBON 100 5% 1/4W	
R400	1-249-435-11	CARBON 33K 5% 1/4W	
R401	1-249-417-11	CARBON 1K 5% 1/4W	
R404	1-249-417-11	CARBON 1K 5% 1/4W	
R405	1-249-415-11	CARBON 680 5% 1/4W	
R406	1-249-409-11	CARBON 220 5% 1/4W	
R407	1-249-409-11	CARBON 220 5% 1/4W	
R416	1-249-417-11	CARBON 1K 5% 1/4W	
R417	1-247-891-00	CARBON 330K 5% 1/4W	

<VARIABLE RESISTOR>

RV201	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K
RV202	1-228-996-00	RES, ADJ, METAL GLAZE 47K

*1-633-816-11	AB BOARD

*1-564-505-11	PLUG, CONNECTOR 2P
*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P

AB

AC

E

H

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>							
C3000	1-126-101-11	ELECT	100MF 20%				
C3003	1-102-973-00	CERAMIC	100PF 5%				
C3004	1-136-169-00	FILM	0.22MF 5%				
C3005	1-136-161-00	FILM	0.047MF 5%				
C3008	1-124-120-11	ELECT	220MF 20%				
C3009	1-101-884-00	CERAMIC	56PF 5%				
C3011	1-124-477-11	ELECT	47MF 20%				
<TRANSISTOR>							
Q3001	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q3002	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q3003	8-729-178-55	TRANSISTOR	2SC2785-E				
Q3004	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q3005	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q3006	8-729-119-78	TRANSISTOR	2SC2785-HFE				
<RESISTOR>							
R3001	1-249-405-11	CARBON	100 5% 1/4W				
R3002	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3003	1-249-409-11	CARBON	220 5% 1/4W				
R3004	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3005	1-249-441-11	CARBON	100K 5% 1/4W				
R3006	1-249-437-11	CARBON	47K 5% 1/4W				
R3007	1-249-423-11	CARBON	3.3K 5% 1/4W				
R3008	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3009	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3010	1-249-417-11	CARBON	1K 5% 1/4W				
R3011	1-249-437-11	CARBON	47K 5% 1/4W				
R3012	1-247-903-00	CARBON	1M 5% 1/4W				
R3013	1-249-429-11	CARBON	10K 5% 1/4W				
R3014	1-249-409-11	CARBON	220 5% 1/4W				
R3015	1-249-425-11	CARBON	4.7K 5% 1/4W				
R3016	1-249-405-11	CARBON	100 5% 1/4W				
R3020	1-249-405-11	CARBON	100 5% 1/4W				

*1-634-210-11	AC BOARD		*****				
*1-564-506-11	PLUG, CONNECTOR 3P						
<CAPACITOR>							
C225	1-136-173-00	FILM	0.47MF 5%				
C238	1-124-902-00	ELECT	0.47MF 20%				
C282	1-136-173-00	FILM	0.47MF 5%				
<TRANSISTOR>							
Q257	8-729-119-78	TRANSISTOR	2SC2785-HFE				
<RESISTOR>							
R242	1-249-421-11	CARBON	2.2K 5% 1/4W				
R268	1-247-895-00	CARBON	470K 5% 1/4W				

*1-632-534-11	E BOARD		*****				
*1-564-506-11	PLUG, CONNECTOR 3P						
				<JACK>			
J4001	1-563-933-11	JACK, MINIATURE (DIA. 3.5)					
J4002	1-563-933-11	JACK, MINIATURE (DIA. 3.5)					
				<RESISTOR>			
R4001	1-247-743-11	CARBON	220 5% 1/2W				
R4002	1-247-743-11	CARBON	220 5% 1/2W				

*A-1371-602-A	H BOARD, COMPLETE		*****				
*1-564-506-11	PLUG, CONNECTOR 3P						
*1-568-106-11	PIN, CONNECTOR 4P						
A *4-397-103-01	HOLDER, AC SWITCH						
				<CAPACITOR>			
C1001	1-123-875-11	ELECT	10MF 20%				
C1002	1-164-070-11	CERAMIC	100PF 5%				
C1003	1-164-070-11	CERAMIC	100PF 5%				
C1004	1-164-097-11	CERAMIC	0.022MF 50V				
C1005	1-164-097-11	CERAMIC	0.022MF 50V				
C1006	1-124-477-11	ELECT	47MF 20%				
C1007	1-164-097-11	CERAMIC	0.022MF 50V				
C1008	1-164-097-11	CERAMIC	0.022MF 50V				
C1009	1-164-097-11	CERAMIC	0.022MF 50V				
C1010	1-124-477-11	ELECT	47MF 20%				
C1011	1-124-791-11	ELECT	1MF 20%				
C1012	1-124-791-11	ELECT	1MF 20%				
C1013	1-126-233-11	ELECT	22MF 20%				
				<DIODE>			
D1000	8-719-109-89	DIODE	RD5.6ES-B2				
D1001	8-719-933-28	DIODE	DAP209S				
D1002	8-719-109-84	DIODE	RD5.1ES-B1				
D1003	8-719-109-74	DIODE	RD4.3ES-B1				
D1005	8-719-936-56	DIODE	DAN209S				
D1006	8-719-911-19	DIODE	ISS119				
D1007	8-719-911-19	DIODE	ISS119				
D1008	8-719-110-36	DIODE	RD13ES-B2				
D1009	8-719-911-19	DIODE	ISS119				
D1010	8-719-109-89	DIODE	RD5.6ES-B2				
D1011	8-719-911-19	DIODE	ISS119				
LEDU1	1-808-949-11	LED UNIT (LEDU-13)					
LEDU2	1-808-918-11	LED UNIT (LEDU-9)					
				<IC>			
IC1001	8-759-143-81	IC	UPD7564CS-094				
IC1002	8-752-330-59	IC	CXK1011P				
IC1003	8-759-982-21	IC	RC78L05A				
IC1004	8-759-102-28	IC	UPD6326C				
				<COIL>			
LI001	1-410-521-11	INDUCTOR	100UH				
LI002	1-408-429-00	INDUCTOR	470UH				
				<TRANSISTOR>			

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The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1001	8-729-900-89	TRANSISTOR DTC144BS		R1070	1-249-426-11	CARBON 5.6K 5%	1/4W
Q1002	8-729-900-89	TRANSISTOR DTC144BS		R1071	1-249-433-11	CARBON 22K 5%	1/4W
Q1003	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1072	1-249-423-11	CARBON 3.3K 5%	1/4W
Q1004	8-729-900-89	TRANSISTOR DTC144BS		R1073	1-249-421-11	CARBON 2.2K 5%	1/4W
Q1005	8-729-900-89	TRANSISTOR DTC144BS		R1074	1-249-417-11	CARBON 1K 5%	1/4W
Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1099	1-249-417-11	CARBON 1K 5%	1/4W
Q1007	8-729-900-89	TRANSISTOR DTC144BS				<SWITCH>	
Q1008	8-729-900-65	TRANSISTOR DTA144ES				S1001 Δ 1-554-966-12	SWITCH, PUSH (AC POWER) (1 KEY)
Q1013	8-729-900-89	TRANSISTOR DTC144BS					<BLOCK>
Q1014	8-729-900-65	TRANSISTOR DTA144ES		VSB1	1-572-190-11	SWITCH BLOCK	
Q1015	8-729-900-36	TRANSISTOR DTC124BS		VSB2	1-238-945-11	VOLUME BLOCK	
Q1019	8-729-900-89	TRANSISTOR DTC144BS		VSB3	1-238-946-11	VOLUME BLOCK	
Q1021	8-729-900-89	TRANSISTOR DTC144BS					<CRYSTAL>
Q1022	8-729-900-89	TRANSISTOR DTC144BS		X1001	1-577-163-11	VIBLATOR, CERAMIC	
		<RESISTOR>					*****
R1001	1-249-414-11	CARBON 560 5%	1/4W	*A-1316-099-A	G BOARD, COMPLETE		
R1002	1-249-414-11	CARBON 560 5%	1/4W		*****		
R1003	1-247-704-11	CARBON 220 5%	1/4W	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
R1004	1-249-414-11	CARBON 560 5%	1/4W	*1-533-189-11	HOLDER, FUSE		
R1005	1-249-414-11	CARBON 560 5%	1/4W	1-560-435-00	HORIZONTAL PIN ASSY 2P		
R1007	1-249-405-11	CARBON 100 5%	1/4W	*1-564-104-00	PIN, CONNECTOR 3P		
R1008	1-249-429-11	CARBON 10K 5%	1/4W	*1-564-242-00	PIN, CONNECTOR 5P		
R1009	1-249-423-11	CARBON 3.3K 5%	1/4W	*1-564-321-00	PIN, CONNECTOR 2P		
R1010	1-249-441-11	CARBON 100K 5%	1/4W	*1-564-518-11	PLUG, CONNECTOR 3P		
R1011	1-249-417-11	CARBON 1K 5%	1/4W	*1-564-520-11	PLUG, CONNECTOR 5P		
R1012	1-249-421-11	CARBON 2.2K 5%	1/4W	*1-564-675-11	PIN, CONNECTOR 8P		
R1013	1-249-417-11	CARBON 1K 5%	1/4W	*1-565-395-11	PIN, CONNECTOR 3P		
R1014	1-249-421-11	CARBON 2.2K 5%	1/4W	*1-568-106-11	PIN, CONNECTOR 4P		
R1015	1-249-417-11	CARBON 1K 5%	1/4W	3-704-359-01	SCREW (M3X10), SW (+) P		
R1016	1-249-421-11	CARBON 2.2K 5%	1/4W	*4-341-751-01	EYELET		
R1017	1-249-469-11	CARBON 100K 5%	1/4W	*4-341-752-01	EYELET		
R1018	1-249-417-11	CARBON 1K 5%	1/4W	4-363-414-00	SPACER, MICA		
R1019	1-249-433-11	CARBON 22K 5%	1/4W	*4-368-683-01	SPRING		
R1020	1-249-427-11	CARBON 6.8K 5%	1/4W	4-382-854-01	SCREW (M3X8), P, SW (+)		
R1021	1-249-421-11	CARBON 2.2K 5%	1/4W				<CAPACITOR>
R1022	1-249-433-11	CARBON 22K 5%	1/4W	C901 Δ 1-161-741-12	CERAMIC 0.001MF 10%	400V	
R1023	1-249-425-11	CARBON 4.7K 5%	1/4W	C902 Δ 1-136-360-51	FILM 0.22MF 20%	250V	
R1024	1-249-414-11	CARBON 560 5%	1/4W	C903 Δ 1-136-360-51	FILM 0.22MF 20%	250V	
R1025	1-249-417-11	CARBON 1K 5%	1/4W	C904 Δ 1-161-953-51	CERAMIC 0.0047MF 20%	400V	
R1026	1-247-713-11	CARBON 1K 5%	1/4W	C905 Δ 1-161-741-12	CERAMIC 0.001MF 10%	400V	
R1030	1-249-421-11	CARBON 2.2K 5%	1/4W	C906 Δ 1-161-953-51	CERAMIC 0.0047MF 20%	400V	
R1031	1-249-421-11	CARBON 2.2K 5%	1/4W	C907	1-125-457-11	ELECT (BLOCK) 560MF	20%
R1032	1-249-433-11	CARBON 22K 5%	1/4W	C908	1-125-457-11	ELECT (BLOCK) 560MF	20%
R1033	1-249-421-11	CARBON 2.2K 5%	1/4W	C909	1-102-050-00	CERAMIC 0.01MF	500V
R1034	1-249-421-11	CARBON 2.2K 5%	1/4W	C910	1-102-050-00	CERAMIC 0.01MF	500V
R1035	1-249-417-11	CARBON 1K 5%	1/4W	C911	1-162-115-00	CERAMIC 330PF	10%
R1036	1-249-421-11	CARBON 2.2K 5%	1/4W	C912	1-136-060-00	FILM 0.047MF	5%
R1037	1-249-421-11	CARBON 2.2K 5%	1/4W	C913	1-136-060-00	FILM 0.047MF	5%
R1038	1-249-421-11	CARBON 2.2K 5%	1/4W	C914	1-162-115-00	CERAMIC 330PF	10%
R1039	1-249-409-11	CARBON 220 5%	1/4W	C915	1-162-115-00	CERAMIC 330PF	10%
R1040	1-249-409-11	CARBON 220 5%	1/4W	C916	1-162-115-00	CERAMIC 330PF	10%
R1041	1-249-417-11	CARBON 1K 5%	1/4W	C917	1-136-973-11	FILM 0.017MF	3%
R1042	1-249-409-11	CARBON 220 5%	1/4W	C918	1-124-477-11	ELECT 47MF	20%
R1045	1-249-406-11	CARBON 120 5%	1/4W	C919	1-124-477-11	ELECT 47MF	20%
R1049	1-249-427-11	CARBON 6.8K 5%	1/4W				
R1050	1-249-440-11	CARBON 82K 5%	1/4W				
R1051	1-249-417-11	CARBON 1K 5%	1/4W				
R1054	1-249-429-11	CARBON 10K 5%	1/4W				
R1055	1-249-425-11	CARBON 4.7K 5%	1/4W				
R1056	1-249-417-11	CARBON 1K 5%	1/4W				
R1060	1-249-421-11	CARBON 2.2K 5%	1/4W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C920	1-136-239-11	FILM	0.01MF	3%	1KV		
C921	1-129-764-00	FILM	0.039MF	10%	200V		
C922	1-123-024-21	ELECT	33MF		160V		
C923	1-123-024-21	ELECT	33MF		160V		
C924	1-123-024-21	ELECT	33MF		160V		
C925	1-124-126-00	ELECT	47MF	20%	16V		
C926	1-126-104-11	ELECT	470MF	20%	25V		
C927	1-126-104-11	ELECT	470MF	20%	35V		
C928	1-123-875-11	ELECT	10MF	20%	50V		
C929	1-124-126-00	ELECT	47MF	20%	16V		
C930	1-162-116-00	CERAMIC	680PF	10%	2KV		
C931	1-124-477-11	ELECT	47MF	20%	16V		
C932	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C933	1-124-887-00	ELECT	3300MF	20%	16V		
C934	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C935	1-124-563-11	ELECT	2200MF	20%	25V		
C936	1-126-101-11	ELECT	100MF	20%	16V		
C937	1-123-935-00	ELECT	33MF	20%	160V		
C939	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C943	Δ 1-136-360-51	FILM	0.22MF	20%	250V		
C944	1-124-910-11	ELECT	47MF	20%	35V		
C945	1-124-798-11	ELECT	1MF	20%	160V		
C946	1-124-798-11	ELECT	1MF	20%	160V		
C947	1-124-477-11	ELECT	47MF	20%	25V		
C948	1-162-116-00	CERAMIC	680PF	10%	2KV		
C949	1-124-477-11	ELECT	47MF	20%	25V		
<DIODE>							
D901	8-719-946-90	DIODE	KBU4JL-6088				
D902	8-719-301-18	DIODE	RM2CS				
D903	8-719-971-20	DIODE	ERC38-06				
D904	8-719-971-20	DIODE	ERC38-06				
D905	8-719-301-18	DIODE	RM2CS				
D906	8-719-971-20	DIODE	ERC38-06				
D907	8-719-971-20	DIODE	ERC38-06				
D908	8-719-300-33	DIODE	RU-3AM				
D909	8-719-506-25	DIODE	D5KC20RH				
D910	8-719-981-00	DIODE	ERC81-004				
D911	8-719-300-33	DIODE	RU-3AM				
D912	8-719-300-33	DIODE	RU-3AM				
D913	8-719-939-07	DIODE	ERD38-06				
D914	8-719-939-07	DIODE	ERD38-06				
D915	8-719-939-07	DIODE	ERD38-06				
D916	8-719-981-00	DIODE	ERC81-004				
D917	8-719-981-00	DIODE	ERC81-004				
D918	8-719-981-00	DIODE	ERC81-004				
D919	8-719-981-00	DIODE	ERC81-004				
D920	8-719-939-07	DIODE	ERD38-06				
D921	8-719-913-64	THYRISTOR	CSM2B4A10				
D922	8-719-911-55	DIODE	U05G				
D923	8-719-981-00	DIODE	ERC81-004				
D924	8-719-300-33	DIODE	RU-3AM				
D925	8-719-109-75	DIODE	RD4.3ES-B2				
D926	8-719-300-33	DIODE	RU-3AM				
D927	8-719-300-33	DIODE	RU-3AM				
D928	8-719-300-33	DIODE	RU-3AM				
D929	8-719-110-36	DIODE	RD13ES-B2				
D930	8-719-110-36	DIODE	RD13ES-B2				
D931	8-719-302-92	DIODE	RB-151LFB				
D932	8-719-302-92	DIODE	RB-151LFB				
D933	8-719-911-55	DIODE	U05G				
D934	8-719-300-33	DIODE	RU-3AM				
D935	8-719-300-33	DIODE	RU-3AM				
				<FUSE>			
F901	Δ 1-532-746-11	FUSE, GLASS TUBE	4A/125V				
				<IC>			
IC901	1-235-449-11	POWER MODULE	(DM-19)				
IC902	8-759-144-82	IC	UPC2405HF				
				<COIL>			
L901	1-408-226-00	INDUCTOR	82UH				
L902	1-459-155-00	COIL (WITH CORE)	45UH				
L903	1-410-666-31	INDUCTOR	18UH				
L904	1-410-671-31	INDUCTOR	47UH				
L905	1-459-155-00	COIL (WITH CORE)	45UH				
L906	1-410-671-31	INDUCTOR	47UH				
L907	Δ 1-459-946-11	COIL, NOISE FILTER					
L908	Δ 1-459-946-11	COIL, NOISE FILTER					
L999	1-410-666-31	INDUCTOR	18UH				
				<IC LINK>			
PS901	1-532-675-21	LINK, IC					
PS902	1-532-675-21	LINK, IC					
				<TRANSISTOR>			
Q901	8-729-904-23	TRANSISTOR	2SC3318-S				
Q902	8-729-904-23	TRANSISTOR	2SC3318-S				
Q903	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q904	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q905	8-729-140-96	TRANSISTOR	2SD774-34				
Q906	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q907	8-729-140-96	TRANSISTOR	2SD774-34				
Q908	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q909	8-729-119-76	TRANSISTOR	2SA1175-HFE				
				<RESISTOR>			
R901	Δ 1-244-939-91	CARBON	560K	5%	1/2W		
R902	Δ 1-247-703-91	CARBON	180	5%	1/4W	F	
R903	1-202-840-00	SOLID	150K	10%	1/2W		
R904	1-202-840-00	SOLID	150K	10%	1/2W		
R905	1-202-842-11	SOLID	220K	10%	1/2W		
R906	1-202-842-11	SOLID	220K	10%	1/2W		
R907	1-202-842-11	SOLID	220K	10%	1/2W		
R908	1-216-374-00	METAL OXIDE	2.7	5%	2W	F	
R909	1-207-451-00	WIREWOUND	0.1	10%	1/2W		
R910	1-216-374-00	METAL OXIDE	2.7	5%	2W	F	
R911	1-249-381-11	CARBON	1	5%	1/4W	F	
R912	1-249-423-11	CARBON	3.3K	5%	1/4W	F	
R913	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F	
R914	1-249-429-11	CARBON	10K	5%	1/4W	F	
R915	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F	
R916	1-216-431-11	METAL OXIDE	560	5%	1W	F	
R917	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F	
R918	1-249-441-11	CARBON	100K	5%	1/4W	F	
R919	1-247-700-11	CARBON	100	5%	1/4W	F	
R920	1-215-469-00	METAL	100K	1%	1/6W		
R921	1-215-451-00	METAL	18K	1%	1/6W		
R922	1-215-451-00	METAL	18K	1%	1/6W		
R923	1-214-780-00	METAL	130K	1%	1/4W		

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R924	1-202-842-11	SOLID 220K 10% 1/2W	
R925	1-215-449-00	METAL 15K 1% 1/6W	
R926	1-215-469-00	METAL 100K 1% 1/6W	
R927	1-249-474-11	CARBON 1 5% 1/2W F	
R928	Δ 1-217-288-11	WIREWOUND 1.5 10% 5W F	
R929	1-249-470-11	CARBON 0.47 5% 1/2W F	
R930	1-249-437-11	CARBON 47K 5% 1/4W	
R931	1-249-421-11	CARBON 2.2K 5% 1/4W	
R932	1-249-425-11	CARBON 4.7K 5% 1/4W	
R933	1-249-423-11	CARBON 3.3K 5% 1/4W	
R941	1-247-289-00	CARBON 8.2M 5% 1W	
R942	1-249-395-11	CARBON 15 5% 1/4W F	
<RELAY>			
RY901	Δ 1-515-738-11	RELAY	
<TRANSFORMER>			
T901	Δ 1-421-704-11	COT	
T902	1-421-886-11	PIT	
T903	1-421-889-11	PRT	
T904	1-421-889-11	PRT	
T905	1-421-888-11	PRT	
T906	1-421-885-11	COT	
T907	1-421-887-11	PHT	
T908	Δ 1-421-776-11	LFT	
<THERMISTOR>			
TH901	Δ 1-800-820-12	THERMISTOR, POWER	
THP901	Δ 1-808-059-31	THERMISTOR, POSITIVE	

*A-1331-040-A	C BOARD, COMPLETE		

*1-506-371-00	PIN, CONNECTOR 2P		
*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		
Δ 1-526-819-11	SOCKET, PICTURE TUBE		
*1-564-509-11	PLUG, CONNECTOR 6P		
*1-564-513-11	PLUG, CONNECTOR 10P		
<CAPACITOR>			
C701	1-124-791-11	ELECT 1MF 20% 50V	
C702	1-106-367-00	MYLAR 0.01MF 10% 100V	
C703	1-106-367-00	MYLAR 0.01MF 10% 100V	
C704	1-106-367-00	MYLAR 0.01MF 10% 100V	
C705	1-124-791-11	ELECT 1MF 20% 50V	
C706	1-164-097-11	CERAMIC 0.022MF 50V	
C707	1-124-910-11	ELECT 47MF 20% 50V	
C708	1-164-070-11	CERAMIC 100PF 5% 50V	
C709	1-164-070-11	CERAMIC 100PF 5% 50V	
C710	1-164-070-11	CERAMIC 100PF 5% 50V	
C711	1-123-948-00	ELECT 22MF 20% 250V	
C712	1-106-391-12	MYLAR 0.1MF 10% 200V	
C713	1-106-391-12	MYLAR 0.1MF 10% 200V	
C714	1-106-391-12	MYLAR 0.1MF 10% 200V	
C715	1-124-667-11	ELECT 10MF 20% 100V	
C716	1-124-667-11	ELECT 10MF 20% 100V	
C717	1-124-667-11	ELECT 10MF 20% 100V	
C718	1-124-798-11	ELECT 1MF 20% 160V	

REF. NO.	PART NO.	DESCRIPTION	REMARK
C719	1-124-798-11	ELECT 1MF 20% 160V	
C720	1-124-798-11	ELECT 1MF 20% 160V	
C721	1-162-114-00	CERAMIC 0.0047MF 2KV	
C722	1-123-024-21	ELECT 33MF 160V	
C723	1-162-114-00	CERAMIC 0.0047MF 2KV	
C726	1-164-089-11	CERAMIC 0.0022MF 50V	
C727	1-106-395-00	MYLAR 0.15MF 10% 200V	
C729	1-124-478-11	ELECT 100MF 20% 25V	
C730	1-162-116-00	CERAMIC 680PF 10% 2KV	
<COMPOSITION CIRCUIT BLOCK>			
CP702	1-232-096-00	COMPOSITION CIRCUIT BLOCK	
<DIODE>			
D701	8-719-901-83	DIODE 1SS83	
D702	8-719-901-83	DIODE 1SS83	
D703	8-719-901-83	DIODE 1SS83	
D704	8-719-901-83	DIODE 1SS83	
D705	8-719-901-83	DIODE 1SS83	
D706	8-719-901-83	DIODE 1SS83	
D707	8-719-901-83	DIODE 1SS83	
D708	8-719-901-83	DIODE 1SS83	
D709	8-719-901-83	DIODE 1SS83	
D712	8-719-110-06	DIODE RD8.2ES-B1	
D713	8-719-901-83	DIODE 1SS83	
<IC>			
IC701	8-752-039-40	IC CXA1044BP	
IC702	8-749-921-15	IC VPM03F	
<COIL>			
L701	1-410-459-11	INDUCTOR 1.2UH	
L702	1-410-459-11	INDUCTOR 1.2UH	
L703	1-410-459-11	INDUCTOR 1.2UH	
L704	1-410-675-31	INDUCTOR 120UH	
L706	1-408-420-00	INDUCTOR 82UH	
<RESISTOR>			
R700	1-247-887-00	CARBON 220K 5% 1/4W	
R701	1-249-437-11	CARBON 47K 5% 1/4W	
R702	1-249-437-11	CARBON 47K 5% 1/4W	
R703	1-249-417-11	CARBON 1K 5% 1/4W	
R704	1-249-405-11	CARBON 100 5% 1/4W	
R705	1-249-413-11	CARBON 470 5% 1/4W	
R706	1-249-417-11	CARBON 1K 5% 1/4W	
R707	1-249-401-11	CARBON 47 5% 1/4W	
R708	1-249-401-11	CARBON 47 5% 1/4W	
R709	1-249-401-11	CARBON 47 5% 1/4W	
R710	1-249-405-11	CARBON 100 5% 1/4W	
R711	1-249-413-11	CARBON 470 5% 1/4W	
R712	1-249-413-11	CARBON 470 5% 1/4W	
R713	1-249-413-11	CARBON 470 5% 1/4W	
R714	1-249-402-11	CARBON 56 5% 1/4W	
R715	1-249-402-11	CARBON 56 5% 1/4W	
R716	1-249-402-11	CARBON 56 5% 1/4W	
R717	1-247-903-00	CARBON 1M 5% 1/4W	
R718	1-247-903-00	CARBON 1M 5% 1/4W	
R719	1-247-903-00	CARBON 1M 5% 1/4W	

C

D1

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R720	1-249-417-11	CARBON 1K 5% 1/4W		C505	1-124-477-11	ELECT 47MF 20% 16V	
R721	1-249-417-11	CARBON 1K 5% 1/4W		C506	1-161-830-00	CERAMIC 0.0047MF 500V	
R722	1-249-417-11	CARBON 1K 5% 1/4W		C507	1-126-101-11	ELECT 100MF 20% 16V	
R723	1-215-873-00	METAL OXIDE 4.7K 5% 1W	F	C508	1-106-391-12	MYLAR 0.1MF 10% 200V	
R724	1-215-873-00	METAL OXIDE 4.7K 5% 1W	F	C509	1-124-634-11	ELECT 1MF 20% 250V	
R725	1-215-873-00	METAL OXIDE 4.7K 5% 1W	F	C510	1-123-379-00	ELECT 0.47MF 20% 50V	
R729	1-249-417-11	CARBON 1K 5% 1/4W		C511	1-136-541-11	FILM 1.5MF 5% 200V	
R730	1-249-417-11	CARBON 1K 5% 1/4W		C512	1-106-365-00	MYLAR 0.0082MF 200V	
R731	1-249-417-11	CARBON 1K 5% 1/4W		C513	1-136-627-11	FILM 0.022MF 3% 1KV	
R732	1-247-695-11	SOLID 22 5% 1/4W		C514	1-136-569-11	FILM 1.2MF 5% 200V	
R733	1-247-695-11	SOLID 22 5% 1/4W		C515 Δ	1-130-336-51	FILM 0.0068MF 5% 630V	
R734	1-247-695-11	SOLID 22 5% 1/4W		C516	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R735	1-202-838-00	SOLID 100K 10% 1/2W		C517	1-126-233-11	ELECT 22MF 20% 50V	
R736	1-249-401-11	CARBON 47 5% 1/4W		C518	1-136-598-11	FILM 3MF 5% 200V	
R737	1-249-401-11	CARBON 47 5% 1/4W		C519	1-126-234-11	ELECT 2200MF 20% 16V	
R738	1-249-401-11	CARBON 47 5% 1/4W		C520	1-106-383-00	MYLAR 0.047MF 200V	
R739	1-249-434-11	CARBON 27K 5% 1/4W		C521	1-123-875-11	ELECT 10MF 20% 50V	
R740	1-249-433-11	CARBON 22K 5% 1/4W		C522	1-124-927-11	ELECT 4.7MF 20% 50V	
R741	1-249-429-11	CARBON 10K 5% 1/4W		C523	1-124-477-11	ELECT 47MF 20% 16V	
R742	1-249-417-11	CARBON 1K 5% 1/4W		C524	1-162-114-00	CERAMIC 0.0047MF 2KV	
R743	1-249-413-11	CARBON 470 5% 1/4W		C525	1-108-965-11	MYLAR 0.33MF 10% 200V	
R744	1-249-423-11	CARBON 3.3K 5% 1/4W		C526	1-123-949-00	ELECT 33MF 20% 250V	
R745	1-249-423-11	CARBON 3.3K 5% 1/4W		C527	1-136-569-11	FILM 1.2MF 5% 200V	
R746	1-249-423-11	CARBON 3.3K 5% 1/4W		C528	1-102-978-00	CERAMIC 220PF 5% 50V	
<VARIABLE RESISTOR>				C529	1-124-562-11	ELECT 47MF 20% 160V	
RV700	1-228-996-00	RES, ADJ, CARBON 47K		C530	1-102-129-00	CERAMIC 0.01MF 10% 50V	
RV701	1-228-993-00	RES, ADJ, CARBON 4.7K		C531	1-129-702-00	FILM 0.001MF 10% 630V	
RV702	1-230-504-11	RES, ADJ, CARBON 220		C532	1-126-105-11	ELECT 1000MF 20% 35V	
RV703	1-230-504-11	RES, ADJ, CARBON 220		C533	1-126-101-11	ELECT 100MF 20% 16V	
RV704	1-230-504-11	RES, ADJ, CARBON 220		C534	1-129-702-00	FILM 0.001MF 10% 630V	
RV705	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C535	1-124-347-00	ELECT 100MF 20% 160V	
RV706	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C536	1-136-598-11	FILM 3MF 5% 200V	
RV707	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C537	1-124-120-11	ELECT 220MF 20% 16V	
RV708	1-230-798-11	RES, ADJ, METAL GLAZE 90M		C538	1-162-116-00	CERAMIC 680PF 10% 2KV	
RV709	1-228-993-00	RES, ADJ, CARBON 4.7K		C539	1-108-688-11	MYLAR 0.0047MF 10% 200V	
RV710	1-228-990-00	RES, ADJ, CARBON 1K		C540 Δ	1-162-115-91	CERAMIC 330PF 10% 2KV	
RV711	1-228-990-00	RES, ADJ, CARBON 1K		C541	1-106-367-00	MYLAR 0.01MF 10% 100V	
*****				C542	1-102-038-00	CERAMIC 0.001MF 500V	
*A-1345-900-A	DI BOARD, COMPLETE			C543	1-136-853-11	FILM 0.56MF 5% 200V	
*****				C544	1-106-355-12	MYLAR 0.0033MF 10% 100V	
*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			C545	1-124-799-11	ELECT 2.2MF 20% 160V	
*1-564-506-11	PLUG, CONNECTOR 3P			C546	1-102-038-00	CERAMIC 0.001MF 500V	
*1-564-513-11	PLUG, CONNECTOR 10P			C547	1-129-722-00	FILM 0.047MF 5% 630V	
*1-564-516-11	PLUG, CONNECTOR 13P			C548	1-106-359-00	MYLAR 0.0047MF 10% 100V	
*1-564-674-11	PIN, CONNECTOR 8P			C549	1-106-343-00	MYLAR 0.001MF 10% 100V	
*1-568-536-11	PLUG (MINIATURE DY) 6P			C550	1-162-117-00	CERAMIC 100PF 10% 500V	
*4-341-751-01	BYELET (BY4, BY5, BY6, BY7, BY8, BY9, BY10, BY11, BY12, BY13, BY14, BY15, BY16, BY17, BY18, BY19, BY20, BY21, BY22, BY23, BY24, BY25, BY26, BY27, BY28, BY29, BY30, BY31, BY32, BY33, BY34, BY35, BY36)			C551	1-123-875-11	ELECT 10MF 20% 50V	
*4-341-752-01	BYELET (BY1, BY2, BY3)			C552	1-129-723-00	FILM 0.056MF 5% 630V	
*4-381-827-01	HOLDER, TR			C553 Δ	1-108-429-91	MYLAR 0.047MF 200V	
4-382-854-01	SCREW (M3X8), P, SW (+)			C554	1-106-363-00	MYLAR 0.0068MF 10% 100V	
C555				C555	1-136-071-00	FILM 0.0057MF 3% 2KV	
<CAPACITOR>				C556	1-124-477-11	ELECT 47MF 20% 16V	
C501	1-123-024-21	ELECT 33MF 160V		C557	1-124-667-11	ELECT 10MF 20% 100V	
C502	1-124-902-00	ELECT 0.47MF 20% 50V		C558	1-106-367-00	MYLAR 0.01MF 10% 100V	
C503	1-124-119-00	ELECT 330MF 20% 16V		C559	1-124-045-00	ELECT 4.7MF 20% 50V	
C504	1-124-484-11	ELECT 220MF 20% 35V		C560	1-106-367-00	MYLAR 0.01MF 10% 100V	
C561 Δ	1-162-134-91	CERAMIC 470PF 10% 2KV		C562	1-136-173-00	FILM 0.47MF 5% 50V	
C562	1-136-173-00	FILM 0.47MF 5% 50V		C563	1-106-367-00	MYLAR 0.01MF 10% 100V	
C563	1-106-367-00	MYLAR 0.01MF 10% 100V		C564	1-162-115-00	CERAMIC 330PF 10% 2KV	
C564	1-162-115-00	CERAMIC 330PF 10% 2KV		C565	1-162-115-00	CERAMIC 330PF 10% 2KV	
C565	1-162-115-00	CERAMIC 330PF 10% 2KV		C566	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C566	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C567	1-162-288-31	CERAMIC 330PF 10% 50V	
C567	1-162-288-31	CERAMIC 330PF 10% 50V					

D1

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C568	1-162-115-00	CERAMIC 330PF 10% 2KV		Q507	8-729-140-96	TRANSISTOR 2SD774-34	
	<DIODE>			Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D505	8-719-971-20	DIODE ERC38-06		Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D506	8-719-911-19	DIODE ISS119		Q510	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D507	8-719-976-64	DIODE RGP02-17		Q511	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D508	8-719-109-93	DIODE RD6.2ES-B2		Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D509	8-719-911-55	DIODE U05G		Q513	8-729-805-07	TRANSISTOR 2SD1887-CA	
D510	8-719-976-64	DIODE RGP02-17		Q514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D511	8-719-911-19	DIODE ISS119		Q515	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D512	8-719-110-48	DIODE RD18ES D1		Q516	8-729-140-96	TRANSISTOR 2SD774-34	
D513	8-719-973-95	DIODE ERD09-15		Q517	8-729-140-97	TRANSISTOR 2SB734-34	
D514	8-719-971-20	DIODE ERC38-06		Q518	8-729-900-80	TRANSISTOR DTC114ES	
D515	8-719-973-95	DIODE ERD09-15		Q519	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D516	8-719-911-55	DIODE U05G		Q520	8-729-900-36	TRANSISTOR DTC124ES	
D517	8-719-911-19	DIODE ISS119		Q521	8-729-803-82	TRANSISTOR 2SC3468-E	
D518	8-719-971-20	DIODE ERC38-06		Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D519	8-719-302-59	DIODE FMU-26S		Q523	8-729-401-18	TRANSISTOR 2SB940-P	
D520	8-719-911-19	DIODE ISS119		Q524	8-729-401-21	TRANSISTOR 2SD1264-P	
D521	8-719-911-19	DIODE ISS119		Q525	8-729-900-36	TRANSISTOR DTC124ES	
D522	8-719-971-20	DIODE ERC38-06		Q526	8-729-107-26	TRANSISTOR 2SD1585-K	
D523	8-719-911-19	DIODE ISS119		Q527	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D524	8-719-911-19	DIODE ISS119			<RESISTOR>		
D525	8-719-300-76	DIODE RH-1A		R500	1-202-820-11	SOLID 1.5K 10% 1/2W	
D526	8-719-911-55	DIODE U05G		R501	1-249-425-11	CARBON 4.7K 5% 1/4W	
D527	8-719-300-76	DIODE RH-1A		R502	1-249-437-11	CARBON 47K 5% 1/4W	
D528	8-719-911-19	DIODE ISS119		R503	1-249-428-11	CARBON 8.2K 5% 1/4W	
D529	8-719-911-19	DIODE ISS119		R504	1-249-431-11	CARBON 15K 5% 1/4W	
	<IC>			R505	1-247-725-11	CARBON 10K 5% 1/4W	
IC501	8-759-982-26	IC KC78L12A		R506	1-249-427-11	CARBON 6.8K 5% 1/4W	
IC502	8-759-014-95	IC MC1495L		R507	1-249-426-11	CARBON 5.6K 5% 1/4W	
IC503	8-759-981-95	IC KC4558S		R508	1-249-409-11	CARBON 220 5% 1/4W	
	<COIL>			R509	1-247-719-11	CARBON 3.3K 5% 1/4W	
L501	1-459-215-00	CONE COIL		R510	1-249-429-11	CARBON 10K 5% 1/4W	
L502	1-421-421-00	COIL, CHOKE 100UH		R511	1-249-429-11	CARBON 10K 5% 1/4W	
L503 A	1-459-671-11	COIL (WITH CORE)		R512	1-216-430-11	METAL OXIDE 390 5% 1W	F
L504 A	1-459-670-12	H.L.C.		R513	1-249-431-11	CARBON 15K 5% 1/4W	
L505	1-459-104-00	COIL, DUST CORE		R514	1-249-440-11	CARBON 82K 5% 1/4W	
L506	1-408-239-00	INDUCTOR 4.7MMH		R515	1-216-450-00	METAL OXIDE 82 5% 2W	F
L507	1-408-092-00	INDUCTOR 330UH		R516	1-249-417-11	CARBON 1K 5% 1/4W	
L508	1-422-613-11	COIL, AIR CORE		R517	1-216-425-11	METAL OXIDE 56 5% 1W	F
L509	1-459-215-00	CORE COIL		R518	1-249-425-11	CARBON 4.7K 5% 1/4W	
L510	1-459-454-00	COIL, FERRITE CHOKE		R519	1-249-406-11	CARBON 120 5% 1/4W	
L511	1-421-329-00	COIL, CHOKE		R520	1-215-886-11	METAL OXIDE 100 5% 2W	F
L512	1-459-123-00	COIL, DUST CORE(PAC)		R521	1-249-433-11	CARBON 22K 5% 1/4W	
L513	1-408-072-00	INDUCTOR 47UH		R522	1-249-429-11	CARBON 10K 5% 1/4W	
	<NEON LAMP>			R523	1-216-422-11	METAL OXIDE 18 5% 1W	F
NL502	1-519-108-99	LAMP, NEON		R524	1-249-427-11	CARBON 6.8K 5% 1/4W	
	<TRANSISTOR>			R525	1-249-429-11	CARBON 10K 5% 1/4W	
Q501	8-729-900-89	TRANSISTOR DTC144ES		R526	1-249-429-11	CARBON 10K 5% 1/4W	
Q502	8-729-119-78	TRANSISTOR 2SC2785-HFE		R527	1-249-433-11	CARBON 22K 5% 1/4W	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R528	1-249-434-11	CARBON 27K 5% 1/4W	
Q504	8-729-140-97	TRANSISTOR 2SB734-34		R529	1-249-406-11	CARBON 120 5% 1/4W	
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R530	1-202-719-00	SOLID 1M 10% 1/2W	
Q506	8-729-900-89	TRANSISTOR DTC144ES		R531	1-215-863-11	METAL OXIDE 100 5% 1W	F
				R532	1-249-432-11	CARBON 18K 5% 1/4W	
				R533	1-249-417-11	CARBON 1K 5% 1/4W	
				R534	1-249-432-11	CARBON 18K 5% 1/4W	
				R535	1-249-429-11	CARBON 10K 5% 1/4W	
				R536	1-202-849-00	SOLID 820K 10% 1/2W	
				R537	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
				R538	1-216-353-00	METAL OXIDE 2.2 5% 1W	F
				R539	1-249-427-11	CARBON 6.8K 5% 1/4W	

D1

D2

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R540	1-249-414-11	CARBON	560 5% 1/4W	R604	1-249-425-11	CARBON	4.7K 5% 1/4W
R541	1-202-719-00	SOLID	1M 10% 1/2W	R605	1-247-713-11	CARBON	1K 5% 1/4W
R542	1-249-422-11	CARBON	2.7K 5% 1/4W	R606	1-216-398-11	METAL OXIDE	5.6 5% 3W F
R543	1-249-438-11	CARBON	56K 5% 1/4W	R607	1-216-398-11	METAL OXIDE	5.6 5% 3W F
R544	1-249-419-11	CARBON	1.5K 5% 1/4W	R608	1-249-425-11	CARBON	4.7K 5% 1/4W
R545	1-249-429-11	CARBON	10K 5% 1/4W	R609	1-249-429-11	CARBON	10K 5% 1/4W
R546	1-216-349-00	METAL OXIDE	1 5% 1W F	R611	1-216-399-00	METAL OXIDE	6.8 5% 3W F
R547	1-249-429-11	CARBON	10K 5% 1/4W	R612	1-216-455-11	METAL OXIDE	560 5% 2W F
R548	1-249-440-11	CARBON	82K 5% 1/4W			<VARIABLE RESISTOR>	
R549	1-216-428-00	METAL OXIDE	180 5% 1W F	RV501	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K	
R550	1-249-424-11	CARBON	3.9K 5% 1/4W	RV502	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R551	1-215-882-00	METAL OXIDE	22 5% 2W F	RV503	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R552	1-249-441-11	CARBON	100K 5% 1/4W	RV504	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K	
R553	1-216-371-00	METAL OXIDE	1.5 5% 2W F			<RELAY>	
R554	1-249-429-11	CARBON	10K 5% 1/4W	RY501	1-515-626-11	RELAY	
R555	1-249-431-11	CARBON	15K 5% 1/4W	RY502	1-515-626-11	RELAY	
R556	1-214-786-00	METAL	240K 1% 1/4W	RY503	1-515-626-11	RELAY	
R557	1-249-429-11	CARBON	10K 5% 1/4W	RY504	1-515-626-11	RELAY	
R558	1-214-925-00	CARBON	330K 5% 1/2W			<SPARK GAP>	
R559 Δ	1-213-074-51	FUSIBLE	39 5% 1W F	SG501	1-519-422-11	GAP, SPARK	
R560	1-216-369-00	METAL OXIDE	1 5% 2W F			<TRANSFORMER>	
R561	1-249-429-11	CARBON	10K 5% 1/4W	T501	1-437-164-11	HDT	
R562	1-249-440-11	CARBON	82K 5% 1/4W	T502 Δ	1-439-390-11	TRANSFORMER ASSY, FLYBACK (NX-2100)	
R563	1-249-387-11	CARBON	3.3 5% 1/4W F			<THERMISTOR>	
R564	1-249-429-11	CARBON	10K 5% 1/4W	TH501	1-800-193-00	THERMISTOR	
R565	1-247-721-11	CARBON	4.7K 5% 1/4W	*****			
R566	1-247-720-11	CARBON	3.9K 5% 1/4W	*A-1345-921-A	D2 BOARD, COMPLETE		
R567	1-215-892-11	METAL OXIDE	1K 5% 2W F	*****			
R568	1-247-883-00	CARBON	150K 5% 1/4W	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		
R569	1-216-454-11	METAL OXIDE	390 5% 2W F	*1-564-507-11	PLUG, CONNECTOR 4P		
R570	1-215-890-11	METAL OXIDE	470 5% 2W F	*1-564-508-11	PLUG, CONNECTOR 5P		
R571	1-202-841-00	SOLID	180K 10% 1/2W	*1-564-513-11	PLUG, CONNECTOR 10P		
R572	1-202-842-11	SOLID	220K 10% 1/2W	*1-564-516-11	PLUG, CONNECTOR 13P		
R573	1-247-881-00	CARBON	120K 5% 1/4W	*3-710-578-01	COVER, VOLUME, 6 MOLD		
R574	1-249-405-11	CARBON	100 5% 1/4W			<CAPACITOR>	
R575	1-249-467-11	CARBON	68K 5% 1/4W	C1500	1-126-103-11	ELECT	470MF 20% 16V
R576	1-249-417-11	CARBON	1K 5% 1/4W	C1501	1-124-480-11	ELECT	470MF 20% 25V
R577	1-249-465-11	CARBON	47K 5% 1/4W	C1502	1-123-875-11	ELECT	10MF 20% 50V
R578	1-249-441-11	CARBON	100K 5% 1/4W	C1503	1-126-103-11	ELECT	470MF 20% 16V
R579	1-247-891-00	CARBON	330K 5% 1/4W	C1504	1-124-477-11	ELECT	47MF 20% 16V
R580	1-249-429-11	CARBON	10K 5% 1/4W	C1505	1-164-070-11	CERAMIC	100PF 5% 50V
R581	1-249-435-11	CARBON	33K 5% 1/4W	C1506	1-123-875-11	ELECT	10MF 20% 50V
R582	1-249-429-11	CARBON	10K 5% 1/4W	C1507	1-124-477-11	ELECT	47MF 20% 16V
R583	1-249-417-11	CARBON	1K 5% 1/4W	C1508	1-123-875-11	ELECT	10MF 20% 50V
R584	1-249-409-11	CARBON	220 5% 1/4W	C1509	1-164-077-11	CERAMIC	220PF 10% 50V
R585	1-249-401-11	CARBON	47 5% 1/4W F	C1510	1-164-097-11	CERAMIC	0.022MF 50V
R586	1-202-818-00	SOLID	1K 10% 1/2W	C1511	1-164-097-11	CERAMIC	0.022MF 50V
R587	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	C1512	1-124-791-11	ELECT	1MF 20% 50V
R588	1-249-429-11	CARBON	10K 5% 1/4W	C1513	1-123-875-11	ELECT	10MF 20% 50V
R589	1-249-417-11	CARBON	1K 5% 1/4W F	C1514	1-136-173-00	FILM	0.47MF 5% 50V
R590	1-249-417-11	CARBON	1K 5% 1/4W				
R591	1-249-393-11	CARBON	10 5% 1/4W F				
R592	1-215-874-11	METAL OXIDE	6.8K 5% 1W F				
R593	1-249-427-11	CARBON	6.8K 5% 1/4W				
R594	1-215-921-11	METAL OXIDE	4.7K 5% 3W F				
R595	1-216-436-00	METAL OXIDE	3.9K 5% 1W F				
R596	1-249-463-11	CARBON	27K 5% 1/4W				
R597	1-249-417-11	CARBON	1K 5% 1/4W				
R598	1-249-439-11	CARBON	68K 5% 1/4W				
R599	1-249-416-11	CARBON	820 5% 1/4W				
R600	1-216-350-11	METAL OXIDE	1.2 5% 1W F				
R601	1-216-350-11	METAL OXIDE	1.2 5% 1W F				
R602	1-247-714-11	CARBON	1.2K 5% 1/4W				
R603	1-249-413-11	CARBON	470 5% 1/4W				

D2



• The components identified by **⊠** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.


Les composants identifiés par une trame et une marque **⊠** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.


The components identified by shading and mark **⊠** are critical for safety. Replace only with part number specified.













































REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1542	1-215-459-00	METAL	39K 1% 1/6W	R1605	1-215-449-00	METAL	15K 1% 1/6W
R1543	1-249-433-11	CARBON	22K 5% 1/4W	R1606	1-259-884-11	CARBON	4.7M 5% 1/4W
R1544	1-249-426-11	CARBON	5.6K 5% 1/4W	R1607	1-215-445-00	METAL	10K 1% 1/6W
R1545	1-249-431-11	CARBON	15K 5% 1/4W	R1608	1-215-451-00	METAL	18K 1% 1/6W
R1546	1-249-423-11	CARBON	3.3K 5% 1/4W	R1609	1-249-433-11	CARBON	22K 5% 1/4W
R1547	1-215-429-00	METAL	2.2K 1% 1/6W	R1610	1-249-405-11	CARBON	100 5% 1/4W
⊠ R1548A		METAL	1/4W	R1611	1-249-427-11	CARBON	6.8K 5% 1/4W
	*1-506-371-00	PIN, CONNECTOR 2P;	R1548	R1612	1-249-433-11	CARBON	22K 5% 1/4W
R1549	1-247-887-00	CARBON	220K 5% 1/4W	R1613	1-249-437-11	CARBON	47K 5% 1/4W
R1550	1-249-433-11	CARBON	22K 5% 1/4W	R1614	1-249-417-11	CARBON	1K 5% 1/4W
R1551	1-249-435-11	CARBON	33K 5% 1/4W	R1615	1-249-433-11	CARBON	22K 5% 1/4W
R1552	1-215-445-00	METAL	10K 1% 1/6W	R1616	1-215-471-00	METAL	120K 1% 1/6W
R1553	1-249-429-11	CARBON	10K 5% 1/4W	R1617	1-249-411-11	CARBON	330 5% 1/4W
R1554	1-249-426-11	CARBON	5.6K 5% 1/4W	R1618	1-249-429-11	CARBON	10K 5% 1/4W
R1555	1-249-433-11	CARBON	22K 5% 1/4W	R1619	1-249-437-11	CARBON	47K 5% 1/4W
R1556	1-216-471-11	METAL OXIDE	27 5% 3W W	R1620	1-249-417-11	CARBON	1K 5% 1/4W
R1557	1-249-425-11	CARBON	4.7K 5% 1/4W	R1621	1-249-417-11	CARBON	1K 5% 1/4W
R1558	1-249-417-11	CARBON	1K 5% 1/4W	R1622	1-215-459-00	METAL	39K 1% 1/6W
R1559	1-249-429-11	CARBON	10K 5% 1/4W	R1623	1-215-445-00	METAL	10K 1% 1/6W
R1560	1-249-435-11	CARBON	33K 5% 1/4W	R1624	1-249-417-11	CARBON	1K 5% 1/4W
R1561	1-249-421-11	CARBON	2.2K 5% 1/4W	R1625	1-215-466-00	METAL	75K 1% 1/6W
R1562	1-249-429-11	CARBON	10K 5% 1/4W	R1626	1-215-488-00	METAL	620K 1% 1/6W
R1563	1-249-429-11	CARBON	10K 5% 1/4W	R1628	1-249-435-11	CARBON	33K 5% 1/4W
R1564	1-249-429-11	CARBON	10K 5% 1/4W	R1629	1-249-435-11	CARBON	33K 5% 1/4W
R1565	1-215-437-00	METAL	4.7K 1% 1/6W	R1630	1-249-417-11	CARBON	1K 5% 1/4W
R1566	1-249-433-11	CARBON	22K 5% 1/4W	R1631	1-249-427-11	CARBON	6.8K 5% 1/4W
R1567	1-249-423-11	CARBON	3.3K 5% 1/4W	R1632	1-249-433-11	CARBON	22K 5% 1/4W
R1568	1-215-439-00	METAL	5.6K 1% 1/6W	R1633	1-249-417-11	CARBON	1K 5% 1/4W
R1569	1-247-889-00	CARBON	270K 5% 1/4W	R1634	1-249-435-11	CARBON	33K 5% 1/4W
R1570	1-215-429-00	METAL	2.2K 1% 1/6W	R1635	1-249-423-11	CARBON	3.3K 5% 1/4W
R1571	1-215-409-00	METAL	330 1% 1/6W	R1636	1-249-429-11	CARBON	10K 5% 1/4W
R1572	1-249-423-11	CARBON	3.3K 5% 1/4W	R1637	1-249-419-11	CARBON	1.5K 5% 1/4W
R1573	1-247-874-11	CARBON	62K 5% 1/4W	R1638	1-249-422-11	CARBON	2.7K 5% 1/4W
R1574	1-249-429-11	CARBON	10K 5% 1/4W	R1639	1-249-437-11	CARBON	47K 5% 1/4W
R1575	1-249-433-11	CARBON	22K 5% 1/4W	R1640	1-249-433-11	CARBON	22K 5% 1/4W
R1576	1-249-437-11	CARBON	47K 5% 1/4W	R1641	1-249-429-11	CARBON	10K 5% 1/4W
R1577	1-247-713-11	CARBON	1K 5% 1/4W	R1642	1-249-421-11	CARBON	2.2K 5% 1/4W
R1578	1-249-425-11	CARBON	4.7K 5% 1/4W	R1643	1-214-753-00	METAL	10K 1% 1/6W
R1579	1-247-885-00	CARBON	180K 5% 1/4W	R1644	1-249-412-11	CARBON	390 5% 1/4W
R1580	1-249-430-11	CARBON	12K 5% 1/4W	R1645	1-249-429-11	CARBON	10K 5% 1/4W
R1581	1-215-429-00	METAL	2.2K 1% 1/6W	R1646	1-249-433-11	CARBON	22K 5% 1/4W
R1582	1-215-428-00	METAL	2K 1% 1/6W	R1647	1-249-417-11	CARBON	1K 5% 1/4W
R1583	1-249-437-11	CARBON	47K 5% 1/4W	R1648	1-249-435-11	CARBON	33K 5% 1/4W
R1584	1-249-437-11	CARBON	47K 5% 1/4W	R1649	1-249-427-11	CARBON	6.8K 5% 1/4W
R1585	1-249-440-11	CARBON	82K 5% 1/4W	R1650	1-249-429-11	CARBON	10K 5% 1/4W
R1586	1-215-411-00	METAL	390 1% 1/6W	R1651	1-249-411-11	CARBON	330 5% 1/4W
R1587	1-247-723-11	CARBON	6.8K 5% 1/4W	R1652	1-249-437-11	CARBON	47K 5% 1/4W
R1588	1-249-441-11	CARBON	100K 5% 1/4W	R1653	1-249-421-11	CARBON	2.2K 5% 1/4W
R1589	1-247-903-00	CARBON	1M 5% 1/4W	R1654	1-249-426-11	CARBON	5.6K 5% 1/4W
R1590	1-215-445-00	METAL	10K 1% 1/6W	R1655	1-249-428-11	CARBON	8.2K 5% 1/4W
R1591	1-247-891-00	CARBON	330K 5% 1/4W	R1656	1-249-429-11	CARBON	10K 5% 1/4W
R1592	1-215-433-00	METAL	3.3K 1% 1/6W	R1657	1-249-437-11	CARBON	47K 5% 1/4W
R1593	1-247-893-11	CARBON	390K 5% 1/4W	R1658	1-247-723-11	CARBON	6.8K 5% 1/4W
R1594	1-249-441-11	CARBON	100K 5% 1/4W	R1659	1-249-440-11	CARBON	82K 5% 1/4W
R1595	1-249-429-11	CARBON	10K 5% 1/4W	R1660	1-249-421-11	CARBON	2.2K 5% 1/4W
R1596	1-259-878-11	CARBON	1.5M 5% 1/4W	R1661	1-249-406-11	CARBON	120 5% 1/4W
R1597	1-215-483-00	METAL	390K 1% 1/6W	R1662	1-249-425-11	CARBON	4.7K 5% 1/4W
R1598	1-249-424-11	CARBON	3.9K 5% 1/4W	R1663	1-249-428-11	CARBON	8.2K 5% 1/4W
R1599	1-249-435-11	CARBON	33K 5% 1/4W	R1664	1-249-439-11	CARBON	68K 5% 1/4W
R1600	1-249-427-11	CARBON	6.8K 5% 1/4W	R1665	1-249-439-11	CARBON	68K 5% 1/4W
R1601	1-249-429-11	CARBON	10K 5% 1/4W	R1666	1-249-433-11	CARBON	22K 5% 1/4W
R1602	1-249-423-11	CARBON	3.3K 5% 1/4W	R1667	1-249-429-11	CARBON	10K 5% 1/4W
R1603	1-249-424-11	CARBON	3.9K 5% 1/4W	R1668	1-249-429-11	CARBON	10K 5% 1/4W
R1604	1-249-441-11	CARBON	100K 5% 1/4W				

D2

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
-  : Selected to yield optimum performance.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1669	1-249-425-11	CARBON	4.7K 5% 1/4W	R1715	1-249-430-11	CARBON	12K 5% 1/4W
 R1670	1-214-729-00	METAL	1K 1% 1/4W	R1716	1-249-437-11	CARBON	47K 5% 1/4W
 R1670	1-214-731-00	METAL	1.2K 1% 1/4W	R1717	1-249-405-11	CARBON	100 5% 1/4W
 R1670	1-214-733-00	METAL	1.5K 1% 1/4W	R1718	1-249-425-11	CARBON	4.7K 5% 1/4W
 R1670	1-214-735-00	METAL	1.8K 1% 1/4W	R1719	1-249-421-11	CARBON	2.2K 5% 1/4W
 R1670	1-214-737-00	METAL	2.2K 1% 1/4W	R1720	1-249-405-11	CARBON	100 5% 1/4W
 R1670	1-214-739-00	METAL	2.7K 1% 1/4W	R1721	1-249-428-11	CARBON	8.2K 5% 1/4W
 R1670	1-214-741-00	METAL	3.3K 1% 1/4W	R1722	1-249-411-11	CARBON	330 5% 1/4W
 R1670	1-214-743-00	METAL	3.9K 1% 1/4W	R1724	1-249-424-11	CARBON	3.9K 5% 1/4W
 R1670	1-214-745-00	METAL	4.7K 1% 1/4W	R1725	1-249-440-11	CARBON	82K 5% 1/4W
 R1670	1-214-747-00	METAL	5.6K 1% 1/4W	R1726	1-249-409-11	CARBON	220 5% 1/4W
 R1670	1-214-749-00	METAL	6.8K 1% 1/4W	R1727	1-249-435-11	CARBON	33K 5% 1/4W
 R1670	1-214-751-00	METAL	8.2K 1% 1/4W	R1728	1-247-713-11	CARBON	1K 5% 1/4W
 R1670	1-214-753-00	METAL	10K 1% 1/4W	 R1729	1-214-762-00	METAL	24K 1% 1/4W
 R1670	1-214-757-00	METAL	15K 1% 1/4W	 R1729	1-214-763-00	METAL	27K 1% 1/4W
 R1670	1-214-761-00	METAL	22K 1% 1/4W	 R1729	1-214-764-00	METAL	30K 1% 1/4W
 R1670	1-214-765-00	METAL	33K 1% 1/4W	 R1729	1-214-765-00	METAL	33K 1% 1/4W
 R1670	1-214-769-00	METAL	47K 1% 1/4W	 R1729	1-214-766-00	METAL	36K 1% 1/4W
 R1670	1-214-773-00	METAL	68K 1% 1/4W	 R1729	1-214-767-00	METAL	39K 1% 1/4W
 R1670	1-214-777-00	METAL	100K 1% 1/4W	 R1729	1-214-768-00	METAL	43K 1% 1/4W
	*1-506-371-00	PIN, CONNECTOR 2P; R1670		 R1729	1-214-769-00	METAL	47K 1% 1/4W
R1671	1-249-405-11	CARBON	100 5% 1/4W	 R1729	1-214-770-00	METAL	51K 1% 1/4W
R1672	1-249-428-11	CARBON	8.2K 5% 1/4W	 R1729	1-214-771-00	METAL	56K 1% 1/4W
R1673	1-215-470-00	METAL	110K 1% 1/6W	 R1729	1-214-772-00	METAL	62K 1% 1/4W
R1674	1-249-439-11	CARBON	68K 5% 1/4W	 R1729	1-214-773-00	METAL	68K 1% 1/4W
R1675	1-214-725-00	METAL	680 1% 1/4W	 R1729	1-214-775-00	METAL	82K 1% 1/4W
R1676	1-247-700-11	CARBON	100 5% 1/4W	 R1729	1-214-777-00	METAL	100K 1% 1/4W
R1677	1-249-437-11	METAL	47K 5% 1/4W	 R1729	1-214-781-00	METAL	150K 1% 1/4W
 R1678A	*1-506-371-00	PIN, CONNECTOR 2P; R1678		 R1729	1-214-785-00	METAL	220K 1% 1/4W
R1679	1-249-413-11	CARBON	470 5% 1/4W	 R1729	1-214-787-00	METAL	270K 1% 1/4W
					*1-506-371-00	PIN, CONNECTOR 2P; R1729	
R1680	1-247-897-11	CARBON	560K 5% 1/4W	R1730	1-259-884-11	CARBON	4.7M 5% 1/4W
R1681	1-249-429-11	CARBON	10K 5% 1/4W	R1731	1-259-882-11	CARBON	3.3M 5% 1/4W
R1682	1-249-417-11	CARBON	1K 5% 1/4W	R1732	1-249-424-11	CARBON	3.9K 5% 1/4W
R1683	1-249-439-11	CARBON	68K 5% 1/4W	R1733	1-249-425-11	CARBON	4.7K 5% 1/4W
R1684	1-249-437-11	CARBON	47K 5% 1/4W	R1734	1-249-421-11	CARBON	2.2K 5% 1/4W
R1685	1-249-435-11	CARBON	33K 5% 1/4W	R1735	1-249-425-11	CARBON	4.7K 5% 1/4W
R1686	1-249-430-11	CARBON	12K 5% 1/4W	R1736	1-249-421-11	CARBON	2.2K 5% 1/4W
R1687	1-249-435-11	CARBON	33K 5% 1/4W	R1737	1-249-425-11	CARBON	4.7K 5% 1/4W
R1688	1-247-887-00	CARBON	220K 5% 1/4W	R1738	1-249-437-11	CARBON	47K 5% 1/4W
R1689	1-249-435-11	CARBON	33K 5% 1/4W	R1739	1-249-423-11	CARBON	3.3K 5% 1/4W
R1690	1-249-435-11	CARBON	33K 5% 1/4W	R1740	1-249-441-11	CARBON	100K 5% 1/4W
R1691	1-249-436-11	CARBON	39K 5% 1/4W	R1741	1-249-437-11	CARBON	47K 5% 1/4W
R1692	1-249-429-11	CARBON	10K 5% 1/4W	R1742	1-249-421-11	CARBON	2.2K 5% 1/4W
R1693	1-249-429-11	CARBON	10K 5% 1/4W	R1743	1-249-433-11	CARBON	22K 5% 1/4W
R1694	1-215-450-00	METAL	16K 1% 1/6W	R1744	1-249-437-11	CARBON	47K 5% 1/4W
R1695	1-249-433-11	CARBON	22K 5% 1/4W	R1745	1-249-423-11	CARBON	3.3K 5% 1/4W
R1696	1-249-441-11	CARBON	100K 5% 1/4W	R1746	1-249-429-11	CARBON	10K 5% 1/4W
R1697	1-249-414-11	CARBON	560 5% 1/4W	R1747	1-249-423-11	CARBON	3.3K 5% 1/4W
R1698	1-249-414-11	CARBON	560 5% 1/4W	R1748	1-249-429-11	CARBON	10K 5% 1/4W
R1699	1-249-439-11	CARBON	68K 5% 1/4W	R1749	1-249-429-11	CARBON	10K 5% 1/4W
R1700	1-249-437-11	CARBON	47K 5% 1/4W	 R1751	1-214-709-00	METAL	150 1% 1/4W
R1701	1-249-433-11	CARBON	22K 5% 1/4W	 R1751	1-214-713-00	METAL	220 1% 1/4W
R1702	1-249-417-11	CARBON	1K 5% 1/4W	 R1751	1-214-717-00	METAL	330 1% 1/4W
R1703	1-249-417-11	CARBON	1K 5% 1/4W	 R1751	1-214-725-00	METAL	680 1% 1/4W
R1704	1-249-439-11	CARBON	68K 5% 1/4W	 R1751	1-214-729-00	METAL	1K 1% 1/4W
R1705	1-249-437-11	CARBON	47K 5% 1/4W	 R1751	1-214-733-00	METAL	1.5K 1% 1/4W
R1706	1-249-405-11	CARBON	100 5% 1/4W	 R1751	1-214-739-00	METAL	2.7K 1% 1/4W
R1707	1-249-421-11	CARBON	2.2K 5% 1/4W		*1-506-371-00	PIN, CONNECTOR 2P; R1751	
R1708	1-249-440-11	CARBON	82K 5% 1/4W	R1752	1-249-465-11	CARBON	47K 5% 1/4W
R1709	1-249-417-11	CARBON	1K 5% 1/4W	R1753	1-249-424-11	CARBON	3.9K 5% 1/4W
R1710	1-215-462-00	METAL	51K 1% 1/6W	R1754	1-249-437-11	CARBON	47K 5% 1/4W
R1711	1-249-435-11	CARBON	33K 5% 1/4W	R1755	1-249-422-11	CARBON	2.7K 5% 1/4W
R1712	1-249-417-11	CARBON	1K 5% 1/4W				
R1714	1-249-413-11	CARBON	470 5% 1/4W				

D2

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1756	1-249-428-11	CARBON 8.2K 5%	1/4W
R1757	1-247-895-00	CARBON 470K 5%	1/4W
R1758	1-249-458-11	CARBON 8.2 5%	1/4W F
<VARIABLE RESISTOR>			
RV1500	1-228-994-00	RES, ADJ, CARBON 10K	
RV1501	1-228-989-00	RES, ADJ, METAL GLAZE 470	
RV1502	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV1503	1-228-999-00	RES, ADJ, METAL GLAZE 470K	
RV1504	1-228-994-00	RES, ADJ, CARBON 10K	
RV1505	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV1507	1-228-998-00	RES, ADJ, CARBON 220K	
RV1508	1-228-999-00	RES, ADJ, CARBON 470K	
RV1509	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV1510	1-228-991-00	RES, ADJ, CARBON 2.2K	
RV1511	1-228-997-00	RES, ADJ, CARBON 100K	
RV1512	1-228-997-00	RES, ADJ, CARBON 100K	
RV1513	1-228-997-00	RES, ADJ, CARBON 100K	
RV1514	1-224-253-99	RES, ADJ, METAL GLAZE 22K	
RV1515	1-237-524-21	RES, ADJ, CARBON 1M	
RV1601	1-228-995-00	RES, ADJ, CARBON 22K	
RV1602	1-228-996-00	RES, ADJ, CARBON 47K	

 A-1394-228-A U BOARD, COMPLETE

*1-564-512-11 PLUG, CONNECTOR 9P

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>			
C2001	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2002	1-126-101-11	ELECT 100MF	20% 16V
C2003	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2004	1-123-875-11	ELECT 10MF	20% 50V
C2005	1-124-477-11	ELECT 47MF	20% 16V
C2006	1-124-477-11	ELECT 47MF	20% 16V
C2007	1-124-477-11	ELECT 47MF	20% 16V
C2010	1-124-902-00	ELECT 0.47MF	20% 50V
C2011	1-130-728-00	FILM 0.0022MF	5% 50V
C2012	1-106-359-00	MYLAR 0.0047MF	10% 100V
C2013	1-124-902-00	ELECT 0.47MF	20% 50V
C2014	1-124-902-00	ELECT 0.47MF	20% 50V
C2015	1-123-875-11	ELECT 10MF	20% 50V
C2016	1-124-902-00	ELECT 0.47MF	20% 50V
C2017	1-123-875-11	ELECT 10MF	20% 50V
C2018	1-124-902-00	ELECT 0.47MF	20% 50V
C2019	1-136-298-00	FILM 0.0033MF	5% 100V
C2021	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C2022	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C2023	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2024	1-124-120-11	ELECT 220MF	20% 16V
C2025	1-135-155-21	TANTAL. CHIP 4.7MF	20% 10V
C2027	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C2028	1-126-101-11	ELECT 100MF	20% 16V
C2029	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2030	1-126-101-11	ELECT 100MF	20% 16V
C2031	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C2032	1-124-477-11	ELECT 47MF	20% 16V
C2033	1-124-791-11	ELECT 1MF	20% 50V
C2034	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C2035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2098	1-163-093-00	CERAMIC CHIP 10PF	5% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C2099	1-123-875-11	ELECT 10MF	20% 50V

<DIODE>			
D2001	8-719-104-34	DIODE 1S2836	
D2024	8-719-104-34	DIODE 1S2836	
D2030	8-719-104-34	DIODE 1S2836	
D2033	8-719-400-18	DIODE MA152WK	
D2035	8-719-104-34	DIODE 1S2836	
D2040	8-719-104-34	DIODE 1S2836	
D2042	8-719-400-18	DIODE MA152WK	
D2045	8-719-104-34	DIODE 1S2836	

<IC>			
IC2001	8-759-634-10	IC M52001SP	
IC2002	8-759-931-07	IC SN74LS365ANS	
IC2003	8-759-634-03	IC M54480P	
IC2005	8-759-930-50	IC SN74LS157NS	
IC2006	8-759-930-50	IC SN74LS157NS	
IC2010	8-759-982-05	IC RC7805FA	

<COIL>			
L2001	1-410-471-11	INDUCTOR	12UH

<TRANSISTOR>			
Q2001	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2002	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2003	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2004	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2005	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2006	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2007	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2009	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2010	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2011	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2012	8-729-901-01	TRANSISTOR DTC144EK	
Q2015	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2020	8-729-901-01	TRANSISTOR DTC144EK	
Q2021	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q2022	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q2024	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2025	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2095	8-729-901-01	TRANSISTOR DTC144EK	
Q2096	8-729-901-01	TRANSISTOR DTC144EK	

<RESISTOR>			
R2001	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2002	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R2003	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2004	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2005	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2006	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2007	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2008	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2009	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R2010	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R2011	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R2012	1-216-025-00	METAL GLAZE 100	5% 1/10W
R2013	1-216-049-00	METAL GLAZE 1K	5% 1/10W



The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2014	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2015	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2016	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2017	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2018	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2019	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2020	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2021	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2022	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2023	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2024	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2025	1-216-107-00	METAL GLAZE 270K 5%	1/10W
R2026	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2027	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R2028	1-216-033-00	METAL GLAZE 220 5%	1/10W
R2030	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2031	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2032	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2033	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2034	1-216-017-00	METAL GLAZE 47 5%	1/10W
R2035	1-216-017-00	METAL GLAZE 47 5%	1/10W
△R2036	1-212-958-51	FUSIBLE 10 5%	1/2W F
R2037	1-216-037-00	METAL GLAZE 330 5%	1/10W
R2038	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2039	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2040	1-216-035-00	METAL GLAZE 270 5%	1/10W
R2041	1-216-037-00	METAL GLAZE 330 5%	1/10W
R2042	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2043	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2044	1-216-035-00	METAL GLAZE 270 5%	1/10W
R2045	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2046	1-216-037-00	METAL GLAZE 330 5%	1/10W
R2047	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2048	1-216-035-00	METAL GLAZE 270 5%	1/10W
R2049	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2050	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2051	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2052	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2053	1-216-050-00	METAL GLAZE 2.7K 5%	1/10W
R2054	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R2055	1-216-107-00	METAL GLAZE 270K 5%	1/10W
R2056	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2057	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2058	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2059	1-216-033-00	METAL GLAZE 220 5%	1/10W
R2060	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2061	1-216-033-00	METAL GLAZE 220 5%	1/10W
R2062	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2063	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2064	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2065	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2066	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R2067	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R2068	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2069	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2070	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2071	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2072	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2073	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2074	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2076	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2077	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2078	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2079	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2080	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2081	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2082	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2083	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2084	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2085	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2086	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2087	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2088	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2089	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R2090	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2091	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2092	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R2093	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2094	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2095	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2096	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R2097	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<SWITCH>			
S2001	1-572-189-11	SWITCH, PUSH (1 KEY)	
S2002	1-571-868-11	SWITCH, PUSH (1 KEY)	
S2003	1-571-427-11	SWITCH, SLIDE	
S2004	1-571-429-11	SWITCH, SLIDE	

MISCELLANEOUS			

△	1-230-666-41	RESISTOR ASSY, HIGH-VOLTAGE	
△	1-426-442-21	COIL, DEMAGNETIZATION	
T909	△ 1-449-948-12	TRANSFORMER, POWER	
△	1-451-291-13	DEFLECTION YOKE (Y14FBC)	
	1-452-032-00	MAGNET, DISK; 10MM φ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
△	1-526-945-11	INLET, AC 3P	
	1-537-207-21	TERMINAL BOARD	
	1-544-252-11	SPEAKER	
CN901	△ 1-568-507-11	CONNECTOR, BRIDGE 15P	
V901	△ 8-738-251-05	PICTURE TUBE (M34JNQ15X)	

ACCESSORIES AND PACKING MATERIALS			

PART NO.	DESCRIPTION	REMARK	
△	1-557-377-11	CORD, POWER (3 CORE)	
	1-569-174-11	CONVERTOR, D-SUB 9P	
	3-751-151-21	MANUAL, INSTRUCTION	
*4	312-246-00	BAG, PROTECTION	
*4	397-134-01	CUSHION (UPPER) (ASSY)	
*4	397-135-01	CUSHION (LOWER) (ASSY)	
*4	397-143-01	INDIVIDUAL CARTON	

